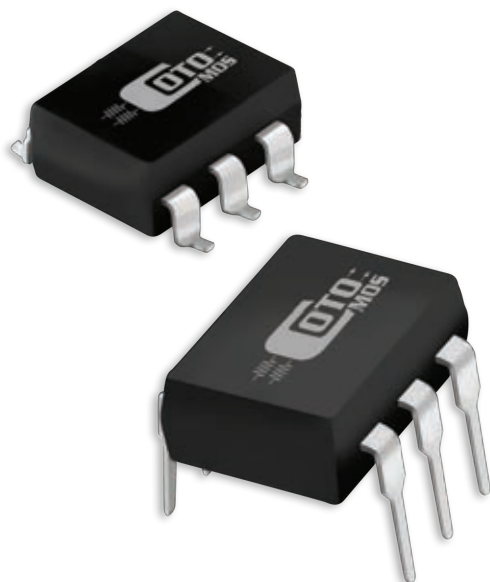


CotoMOS CT126/CS126

The CT126 and CS126 feature high current switching capability to 2.0A with a low on resistance of 0.5Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 40V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT126/CS126 Features

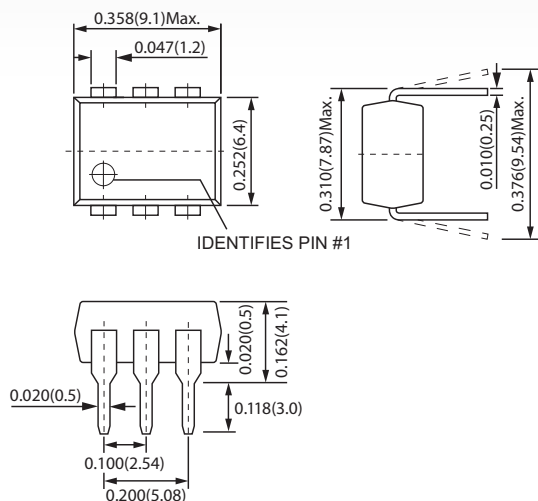
- ▶ Contact Form: 1a
- ▶ Load Voltage: 40V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.0A Maximum
- ▶ On-Resistance: 0.5Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



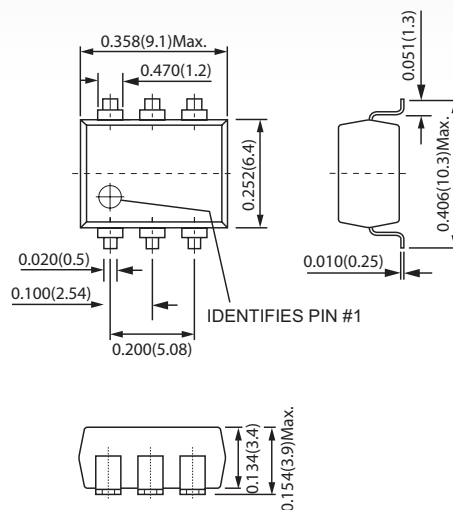
DIMENSIONS

in Inches (Millimeters)

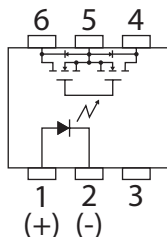
CT126



CS126



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT126/CS126 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	40V (AC peak or DC)
Load Current	I _L	A	2.0A
Peak Load Current	I _{Peak}	A	3.5A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT126/CS126 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0	1.4	1.5
Operation LED Current	I _{F On}		mA		0.5	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.1	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.085	0.5
Off-State Leakage Current	I _{Leak}	I _F =0mA, V _L =40V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		240	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.5	3.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/o}		Ω	10 ⁹		
I/O Capacitance	C _{I/o}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

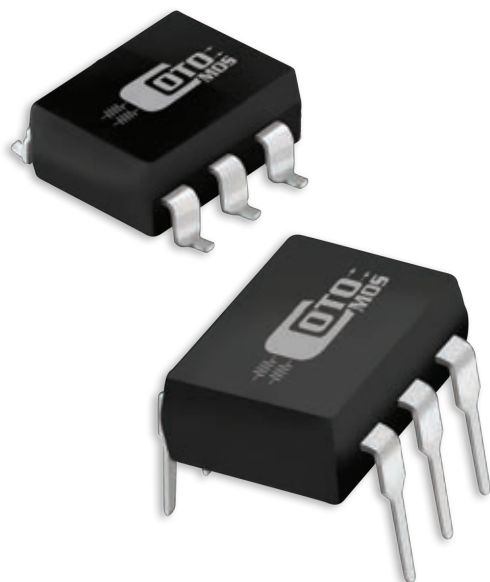
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT130/CS130

The CT130 and CS130 feature current switching capability to 120mA with a low on resistance of 30Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT130/CS130 Features

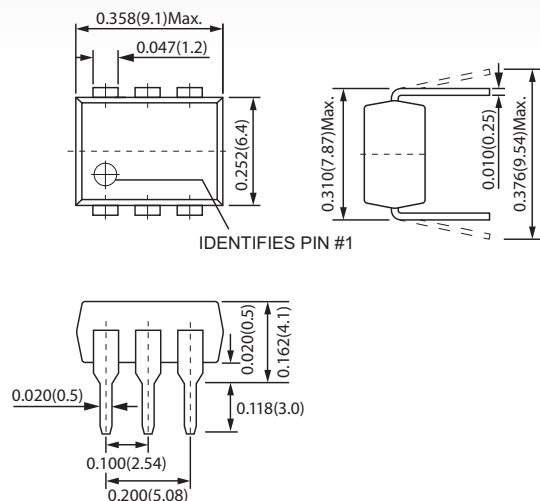
- ▶ Contact Form: 1a
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 120mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



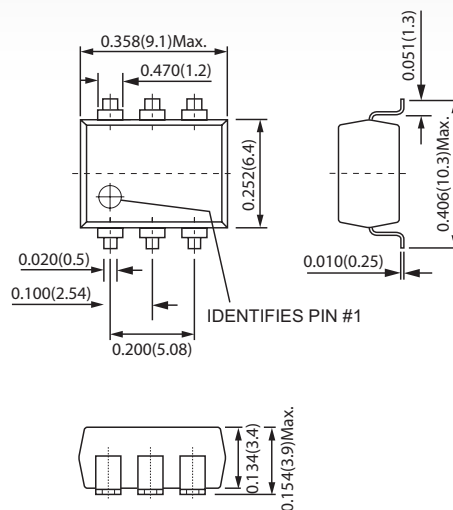
DIMENSIONS

in Inches (Millimeters)

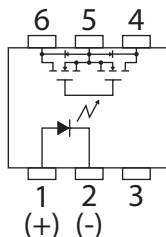
CT130



CS130



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT130/CS130 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	120mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT130/CS130 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.0	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		24	30
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

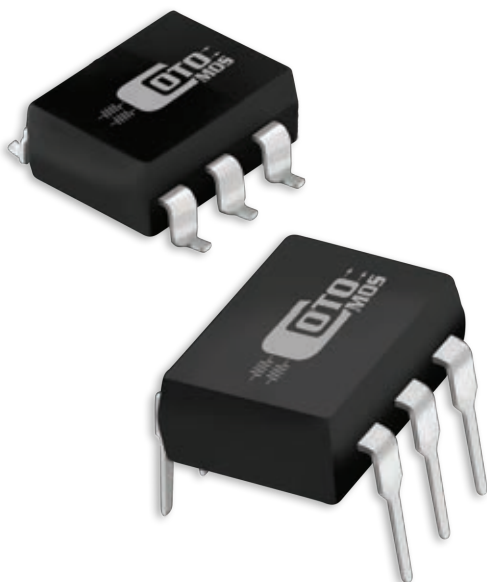
Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT131/CS131

The CT131 and CS131 feature current switching capability to 130mA with a low on resistance of 24Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 350V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT131/CS131 Features

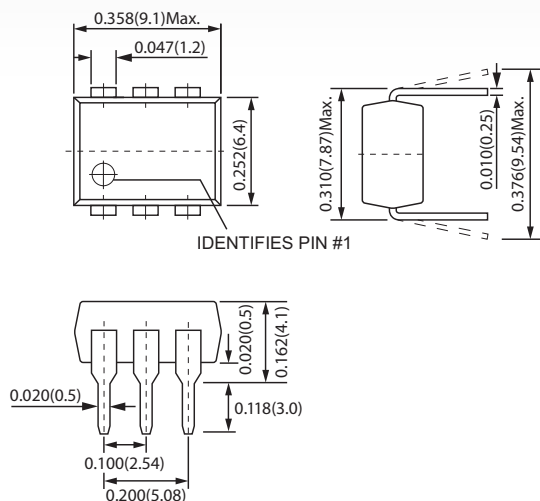
- ▶ Contact Form: 1a
- ▶ Load Voltage: 350V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 130mA Maximum
- ▶ On-Resistance: 24Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



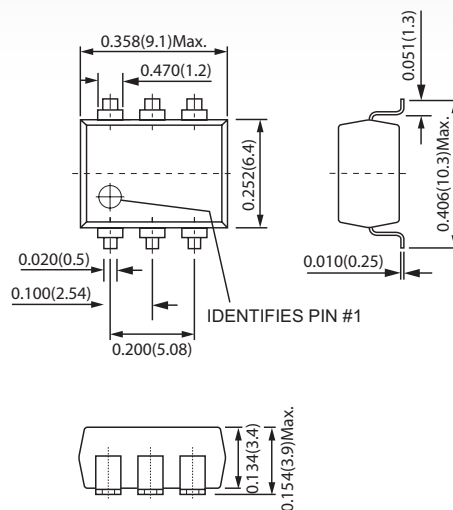
DIMENSIONS

in Inches (Millimeters)

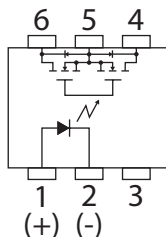
CT131



CS131



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT131/CS131 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	350V (AC peak or DC)
Load Current	I _L	A	130mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT131/CS131 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.0	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		17	24
Off-State Leakage Current	I _{Leak}	V _L =350V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

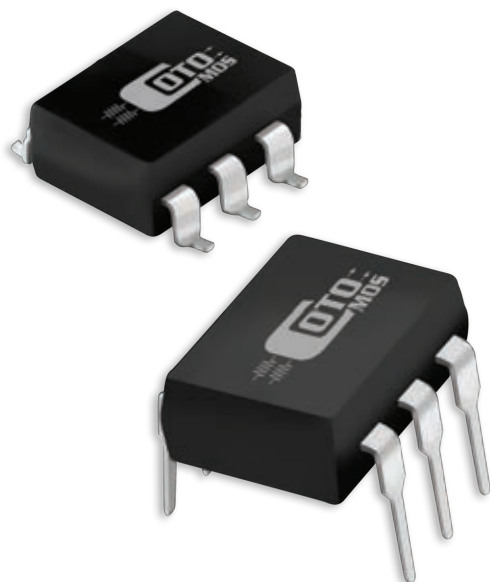
Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT134/CS134

The CT134 and CS134 feature current switching capability to 200mA with a low on resistance of 8Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 200V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT134/CS134 Features

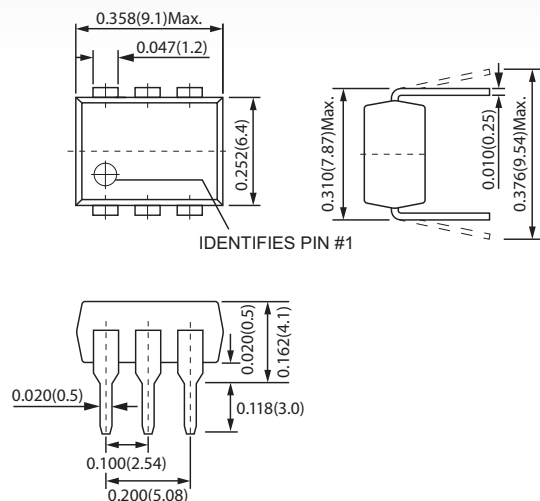
- ▶ Contact Form: 1a
- ▶ Load Voltage: 200V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 200mA Maximum
- ▶ On-Resistance: 8Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



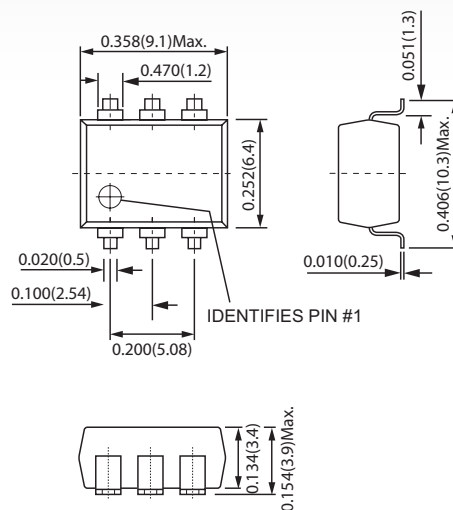
DIMENSIONS

in Inches (Millimeters)

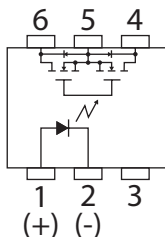
CT134



CS134



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT134/CS134 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	200V (AC peak or DC)
Load Current	I _L	A	200mA
Peak Load Current	I _{Peak}	A	0.8A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT134/CS134 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		6.0	8.0
Off-State Leakage Current	I _{Leak}	V _L =200V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		130	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT135/CS135

The CT135 and CS135 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT135 and the CS135 offer low output capacitance and low leakage current. The CT135 utilizes a thru hole lead configuration, while the CS135 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

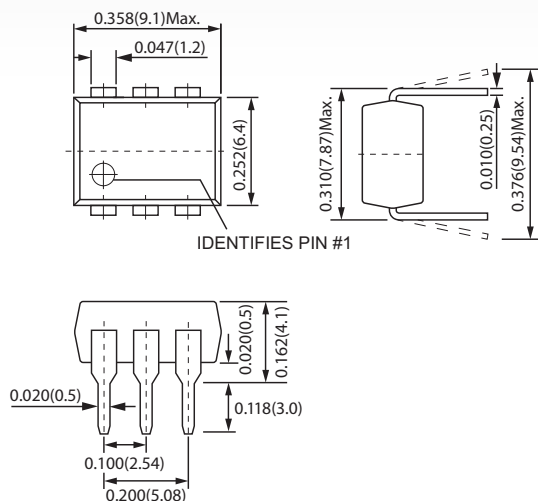
CT135/CS135 Features

- ▶ Contact Form: 1a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 100mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 10nA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum

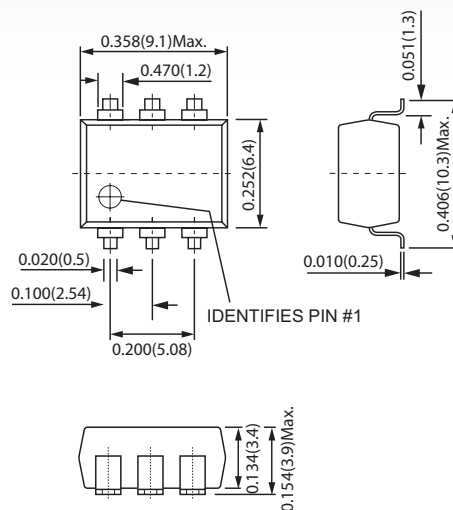
DIMENSIONS

in Inches (Millimeters)

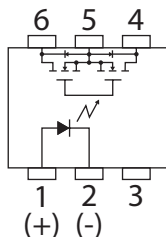
CT135



CS135



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT135/CS135 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	80V (AC peak or DC)
Load Current	I _L	A	100mA
Peak Load Current	I _{Peak}	A	0.3A
Output Power Dissipation	P _{Out}	mW	350mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	400mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT135/CS135 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		20	30
Off-State Leakage Current	I _{Leak}	V _L =80V	nA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		6.0	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.02	0.1
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

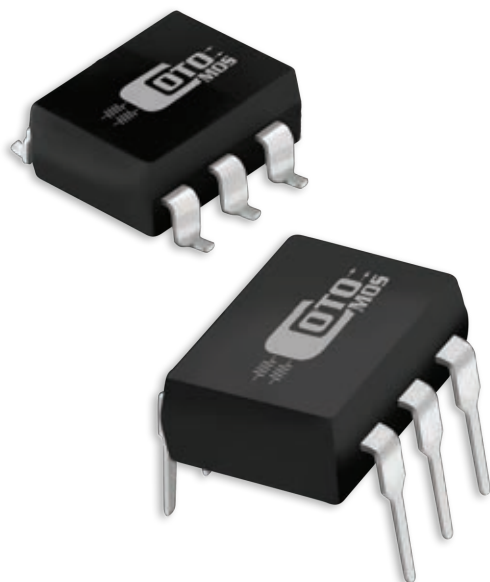
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT136/CS136

The CT136 and CS136 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT136 and the CS136 offer low on resistance and high load current. The CT136 utilizes a thru hole lead configuration, while the CS136 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

CT136/CS136 Features

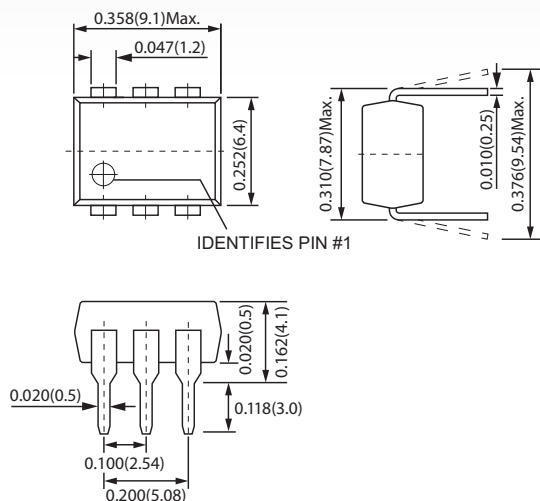
- ▶ Contact Form: 1a
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.5A Maximum
- ▶ On-Resistance: 0.14Ω Maximum
- ▶ Low Off-State Leakage Current: $1.0\mu\text{A}$ Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



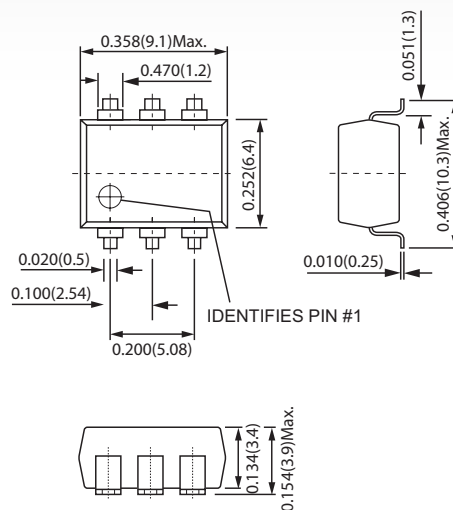
DIMENSIONS

in Inches (Millimeters)

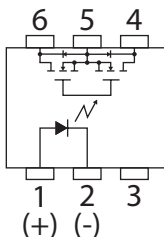
CT136



CS136



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT136/CS136 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	60V (AC peak or DC)
Load Current	I _L	A	2.5A
Peak Load Current	I _{Peak}	A	6.0A
Output Power Dissipation	P _{Out}	mW	500mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	550mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT136/CS136 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		1.5	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =10mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.09	0.14
Off-State Leakage Current	I _{Leak}	I _F =0mA, V _L =50V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		470	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.6	5.0
Turn-Off Time	T _{Off}		ms		0.04	2.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	5*10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.0	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

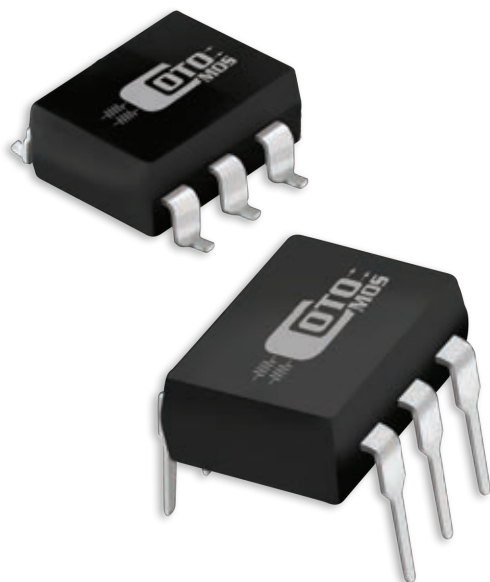
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT137/CS137

The CT137 and CS137 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT137 and the CS137 offer low on resistance. The CT137 utilizes a thru hole lead configuration, while the CS137 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

CT137/CS137 Features

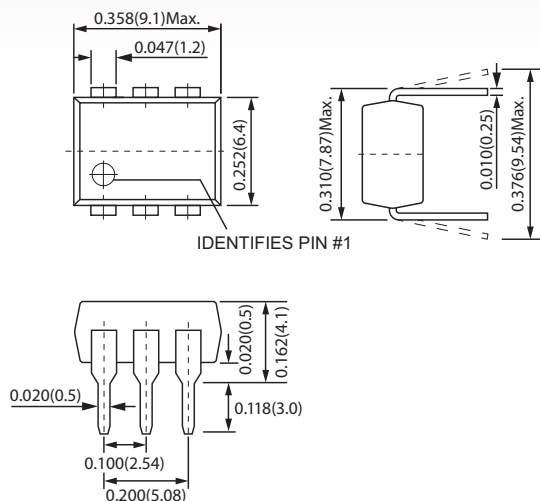
- ▶ Contact Form: 1a
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 400mA Maximum
- ▶ On-Resistance: 1.6Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



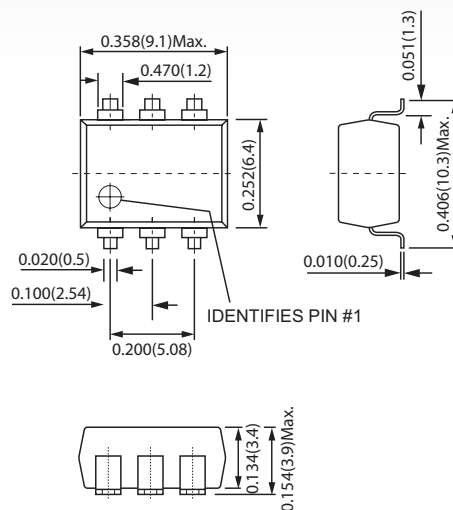
DIMENSIONS

in Inches (Millimeters)

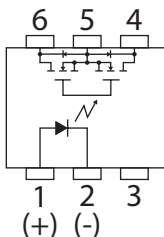
CT137



CS137



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT137/CS137 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	60V (AC peak or DC)
Load Current	I _L	A	400mA
Peak Load Current	I _{Peak}	A	2.0A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

CT137/CS137 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.8	1.6
Off-State Leakage Current	I _{Leak}	V _L =60V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		195	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.3	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/o}		Ω	10 ⁹		
I/O Capacitance	C _{I/o}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

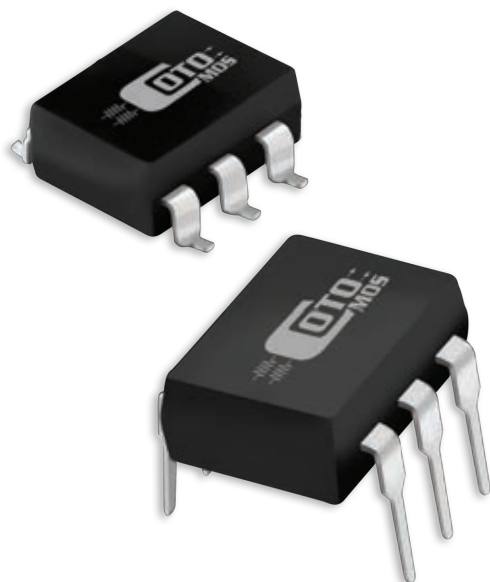
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT138/CS138

The CT138 and CS138 feature current switching capability to 80mA with a low on resistance of 60Ω Maximum Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 600V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT138/CS138 Features

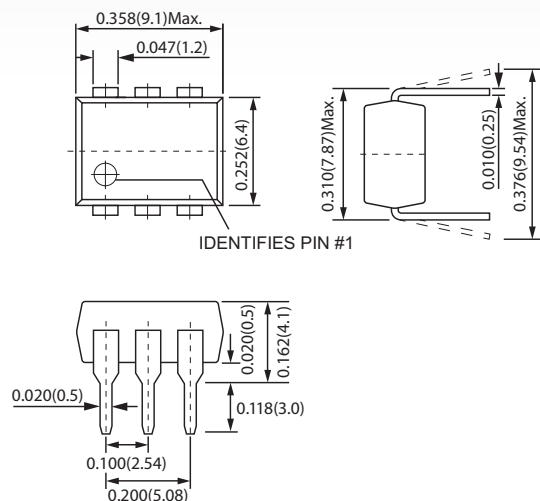
- ▶ Contact Form: 1a
- ▶ Load Voltage: 600V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 80mA Maximum
- ▶ On-Resistance: 60Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



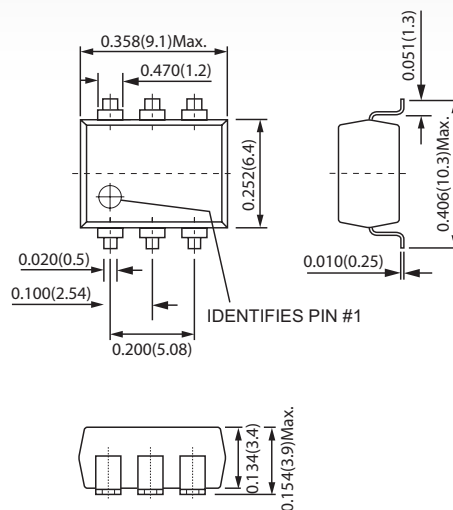
DIMENSIONS

in Inches (Millimeters)

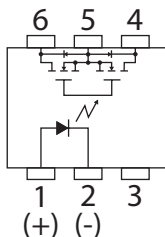
CT138



CS138



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT138/CS138 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	600V (AC peak or DC)
Load Current	I _L	A	80mA
Peak Load Current	I _{Peak}	A	0.2A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT138/CS1382 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		35.0	60.0
Off-State Leakage Current	I _{Leak}	V _L =600V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		95	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.1	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

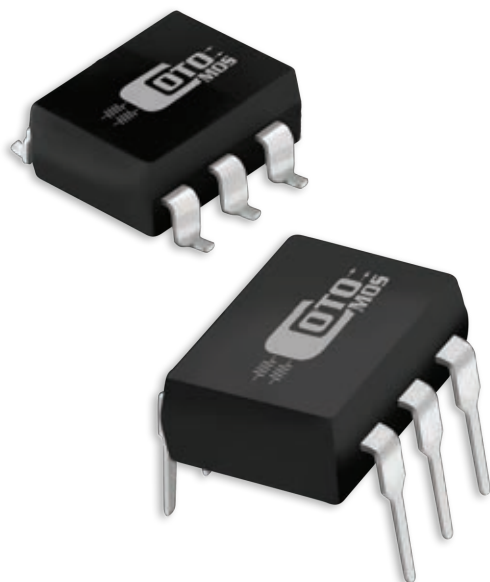
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT147/CS147

The CT147 and CS147 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT147 and the CS147 offer low on resistance and high load current. The CT147 utilizes a thru hole lead configuration, while the CS147 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications

CT147/CS147 Features

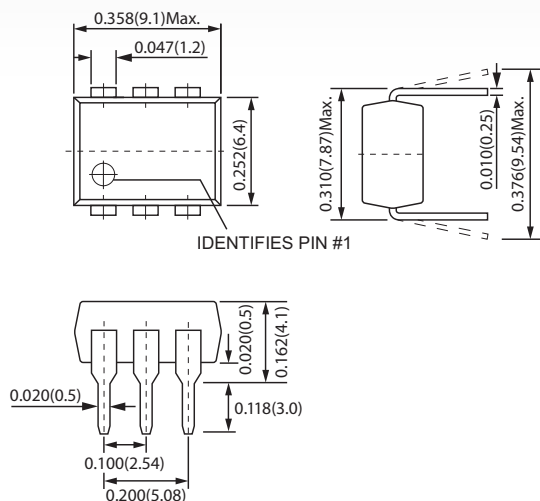
- ▶ Contact Form: 1a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.0A Maximum
- ▶ On-Resistance: 0.16Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



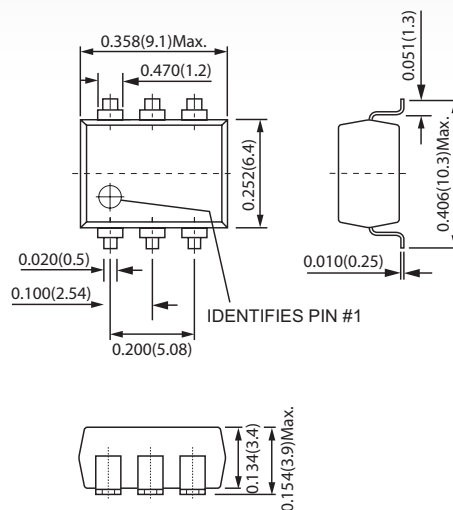
DIMENSIONS

in Inches (Millimeters)

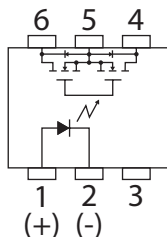
CT147



CS147



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT147/CS147 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	80V (AC peak or DC)
Load Current	I _L	A	2.0A
Peak Load Current	I _{Peak}	A	5.0A
Output Power Dissipation	P _{Out}	mW	500mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	550mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

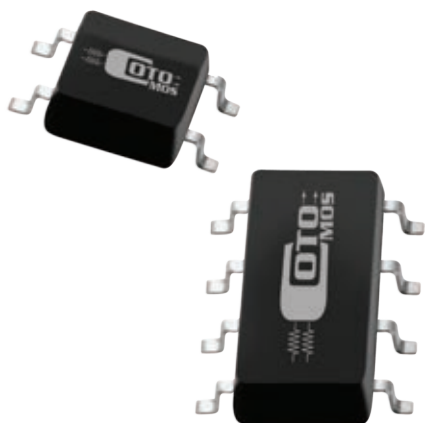
CT138/CS1382 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		1.2	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.1	0.16
Off-State Leakage Current	I _{Leak}	V _L =80V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		500	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.7	5.0
Turn-Off Time	T _{Off}		ms		0.04	1.0
COUPLED						
I/O Insulation Resistance	R _{I/o}		Ω	10 ⁹		
I/O Capacitance	C _{I/o}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS® C226S/C326S

When small size and high performance are needed, the SOP package, such as the C226S or C326S, is the industry choice. Both the C226S and the C326S feature low on-resistance, high load-current capacity, and low off-state leakage current. In addition, the C326S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

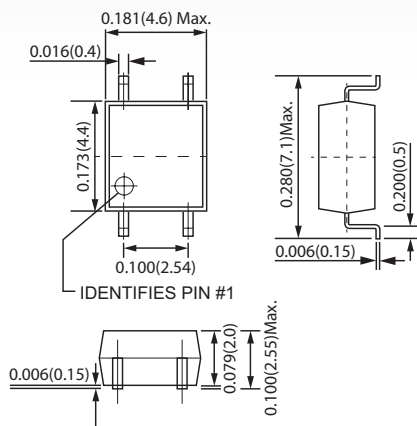
C226S/C326S Features

- ▶ Contact Form: C226S: 1 Form A / C326S: 2 Form A
- ▶ Load Voltage: 40V Maximum
- ▶ Must Operate LED Current: 3.0mA Maximum
- ▶ Load Current: C226S: 2.0A Maximum / C326S: 1.6A Maximum
- ▶ Low On-Resistance: 0.085Ω Typical
- ▶ Output Capacitance: 240pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

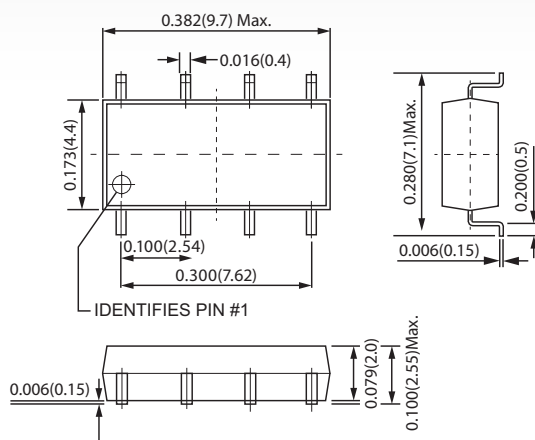
DIMENSIONS

in Inches (Millimeters)

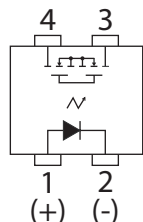
C226S



C326S

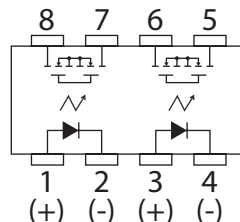


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C226S/C326S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	40V (AC peak or DC)
Load Current	I _L	A	2.0A (1Ch) / 1.6A (2Ch)
Peak Load Current	I _{Peak}	A	3.5A
Output Power Dissipation	P _{Out}	mW	350mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	400mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

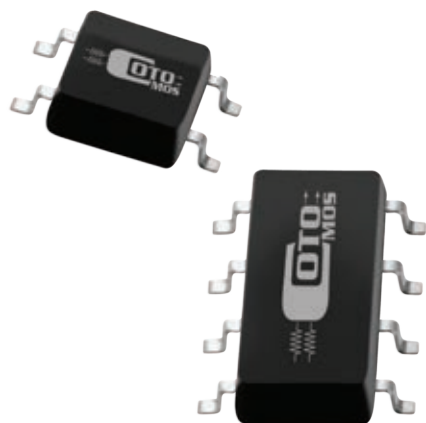
C226S/C326S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0	1.37	1.5
Operation LED Current	I _{F On}		mA		0.5	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.085	0.5
Off-State Leakage Current	I _{Leak}	V _L =40V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		240	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.5	3.0
Turn-Off Time	T _{Off}		ms		0.04	0.5
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C247S/C347S

The C247S and C347S feature high current switching capability to 1.25A with a low on resistance of 0.5Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 80V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

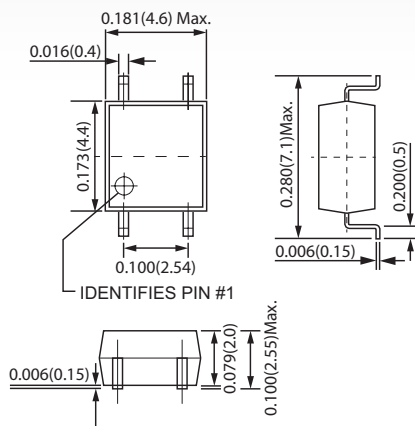
C247S/C347S Features

- ▶ Contact Form: C247S: 1a / C347S: 2a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C247S: 1.25A Maximum / C347S: 1.0A Maximum
- ▶ On-Resistance: 0.15Ω Typical
- ▶ Output Capacitance: 190pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

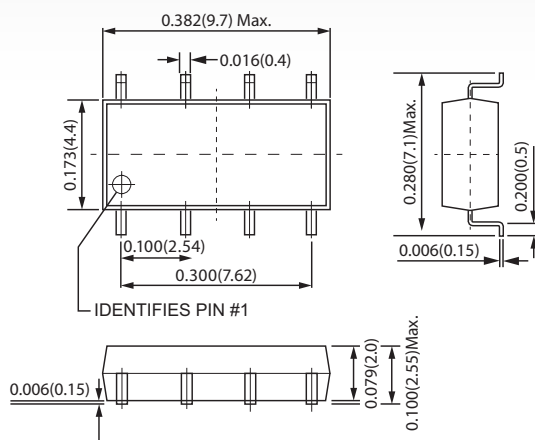
DIMENSIONS

in Inches (Millimeters)

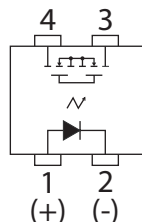
C247S



C347S



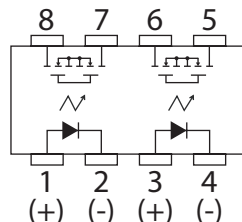
TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)

3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

5,6,7,8: Drain (MOSFET)

C247S/C347S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	80V (AC peak or DC)
Load Current	I _L	A	1.25A (1Ch) / 1.0A (2Ch)
Peak Load Current	I _{Peak}	A	3.0A
Output Power Dissipation	P _{Out}	mW	350mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	400mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

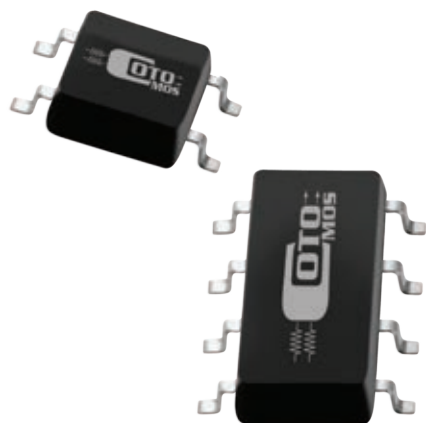
C247S/C347S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0	1.37	1.5
Operation LED Current	I _{F On}		mA		1.2	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.15	0.5
Off-State Leakage Current	I _{Leak}	V _L =80V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		190	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.6	5.0
Turn-Off Time	T _{Off}		ms		0.06	0.5
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C230S/C330S

When small size and high performance are needed, the SOP package, such as the C230S or C330S, is the industry choice. Both the C230S and the C330S feature high load voltage capability and the opportunity for efficient board layout, saving precious board space without compromising on performance. In addition, the C330S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

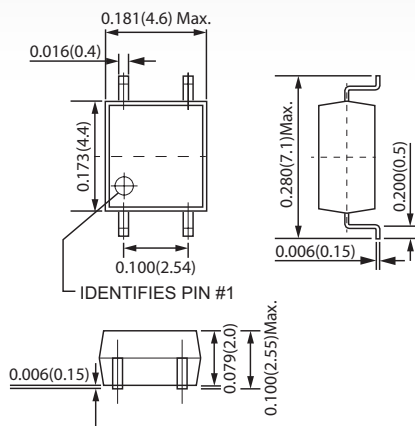
C230S/C330S Features

- ▶ Contact Form: C230S: 1a / C330S: 2a
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C230S: 100mA Maximum / C330S: 85mA Maximum
- ▶ On-Resistance: 24Ω Typical
- ▶ Output Capacitance: 115pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

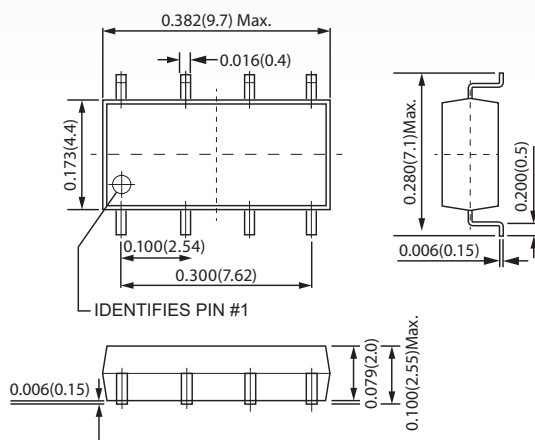
DIMENSIONS

in Inches (Millimeters)

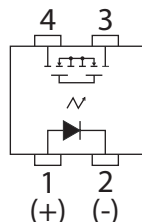
C230S



C330S

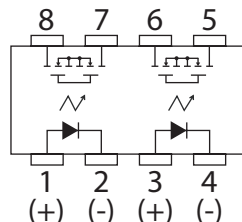


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



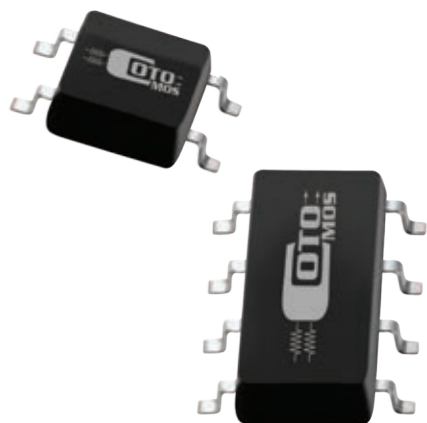
1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C230S/C330S MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	100mA (1Ch) / 85mA (2Ch)
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	300mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C230S/C330S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		24	30
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.25	0.5
Turn-Off Time	T _{Off}		ms		0.02	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C231S/C331S

When small size and high performance are needed, the SOP package, such as the C231S or C331S, is the industry choice. Both the C231S and the C331S feature high load voltage capability and the opportunity for efficient board layout, saving precious board space without compromising on performance. In addition, the C331S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

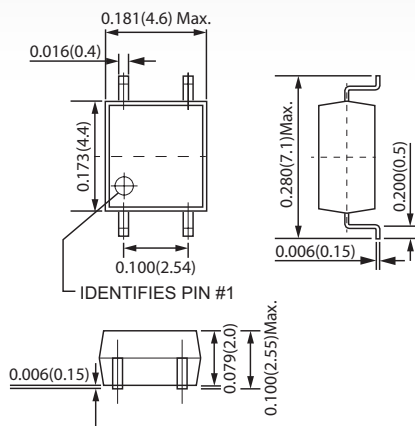
C231S/C331S Features

- Contact Form: C231S: 1a / C331S: 2a
- Load Voltage: 350V Maximum
- Operation LED Current: 3.0mA Maximum
- Load Current: C231S: 120mA Maximum / C331S: 100mA Maximum
- On-Resistance: 24Ω Maximum
- Output Capacitance: 115pF Typical
- Low Off-State Leakage Current: 1.0μA Maximum

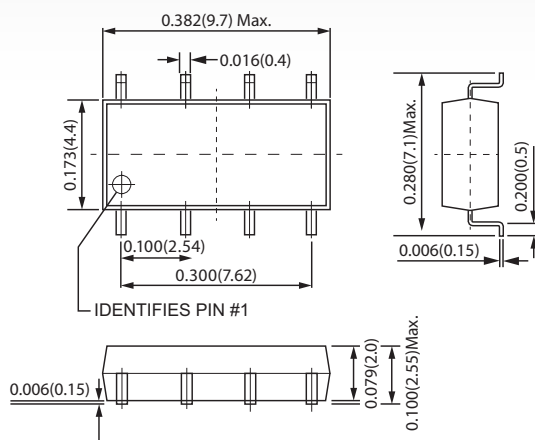
DIMENSIONS

in Inches (Millimeters)

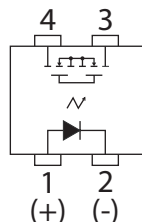
C231S



C331S

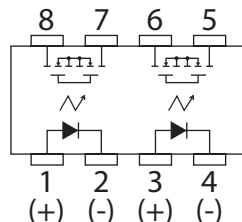


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C231S/C331S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	350V (AC peak or DC)
Load Current	I _L	A	120mA (1Ch) / 100mA (2Ch)
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	300mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

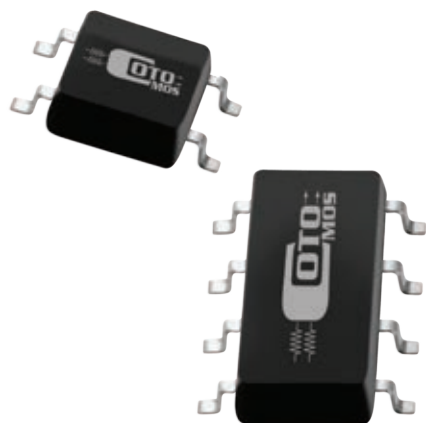
C231S/C331S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		17	24
Off-State Leakage Current	I _{Leak}	V _L =350V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.25	0.5
Turn-Off Time	T _{Off}		ms		0.05	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C234S/C334S

The C234S and C334S feature current switching capability to 180mA with a low on resistance of 8Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 200V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

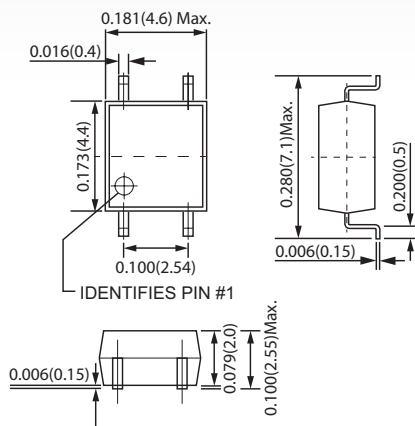
CS234S/CS334S Features

- ▶ Contact Form: C234S: 1a / C334S: 2a
- ▶ Load Voltage: 200V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C234S: 180mA Maximum / C334S: 160mA Maximum
- ▶ On-Resistance: 8Ω Maximum
- ▶ Output Capacitance: 130pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

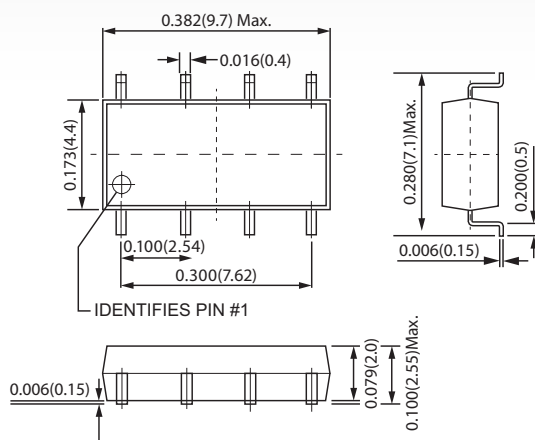
DIMENSIONS

in Inches (Millimeters)

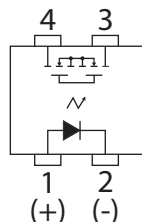
C234S



C334S

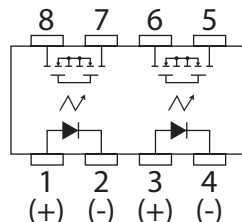


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C234S/C334S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	200V (AC peak or DC)
Load Current	I _L	A	180mA (1Ch) / 160mA (2Ch)
Peak Load Current	I _{Peak}	A	0.8A
Output Power Dissipation	P _{Out}	mW	300mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C234S/C334S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		6.0	8.0
Off-State Leakage Current	I _{Leak}	V _L =200V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		130	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.25	0.5
Turn-Off Time	T _{Off}		ms		0.05	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

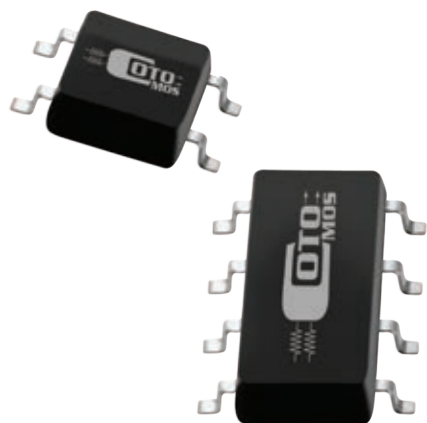
Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS C235S/C335S

The C235S and C335S feature current switching capability to 80mA with a low on resistance of 30Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 80V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.



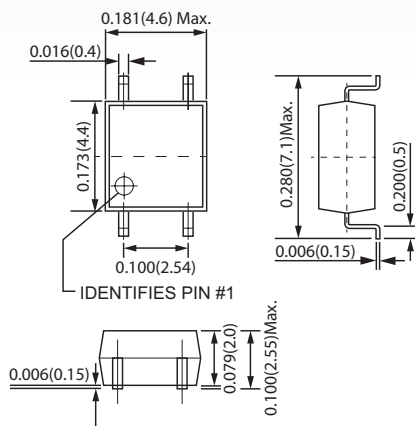
C235S/C335S Features

- ▶ Contact Form: C235S: 1a / C335S: 2a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C235S: 80mA Maximum / C335S: 70mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Output Capacitance: 6pF Typical
- ▶ Low Off-State Leakage Current: 10nA Maximum

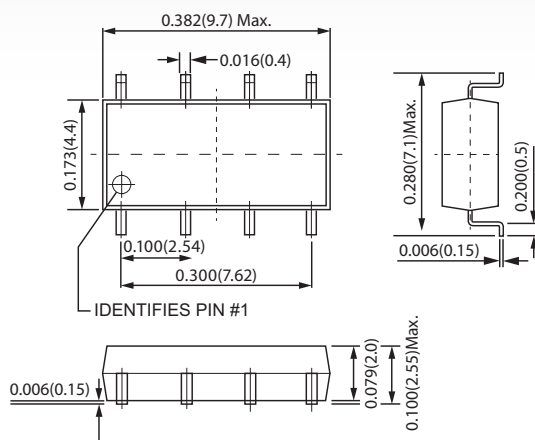
DIMENSIONS

in Inches (Millimeters)

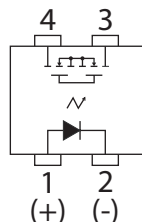
C235S



C335S

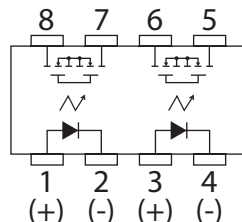


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C235S/C335S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	80V (AC peak or DC)
Load Current	I _L	A	80mA (1Ch) / 70mA (2Ch)
Peak Load Current	I _{Peak}	A	0.3A
Output Power Dissipation	P _{Out}	mW	200mW (1Ch) / 400mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	225mW (1Ch) / 450mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

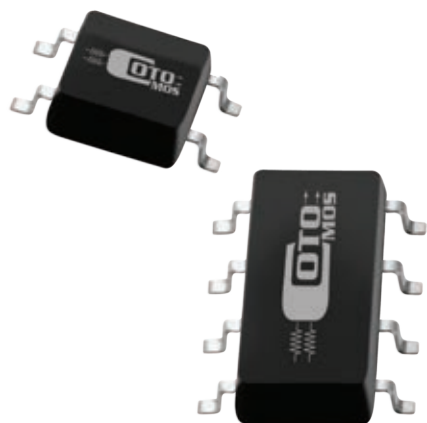
C235S/C335S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		20	30
Off-State Leakage Current	I _{Leak}	V _L =80V	nA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		6.0	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =10mA	ms		0.02	0.5
Turn-Off Time	T _{Off}		ms		0.05	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C237S/C337S

When small size and high performance are needed, the SOP package, such as the C237S or C337S, is the industry choice. Both the C237S and the C337S feature low on resistance fast turn on time. In addition, the C337S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

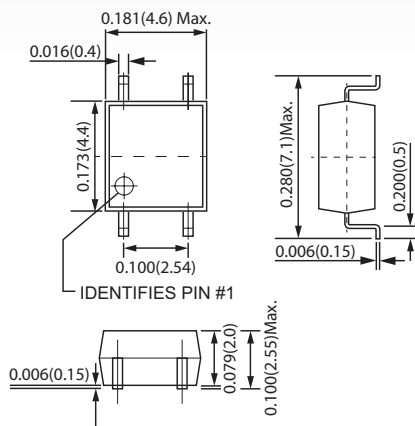
C237S/C337S Features

- ▶ Contact Form: C237S: 1a / C337S: 2a
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C237S: 350mA Maximum / C337S: 320mA Maximum
- ▶ On-Resistance: 1.6Ω Maximum
- ▶ Output Capacitance: 195pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

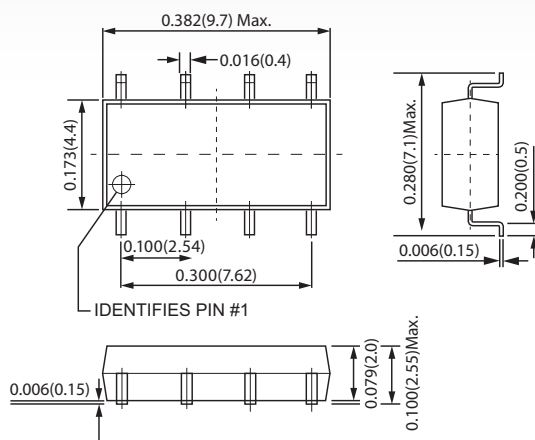
DIMENSIONS

in Inches (Millimeters)

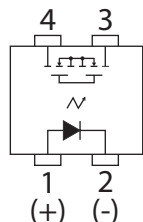
C237S



C337S

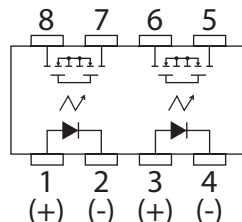


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C237S/C337S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	60V (AC peak or DC)
Load Current	I _L	A	350mA (1Ch) / 320mA (2Ch)
Peak Load Current	I _{Peak}	A	2.0A
Output Power Dissipation	P _{Out}	mW	200mW (1Ch) / 400mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	225mW (1Ch) / 450mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{opr}		-40°C ~ +85°C
Storage Temperature	T _{stg}		-40°C ~ +100°C

C237S/C337S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.8	1.6
Off-State Leakage Current	I _{Leak}	V _L =60V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		195	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.35	1.5
Turn-Off Time	T _{Off}		ms		0.05	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

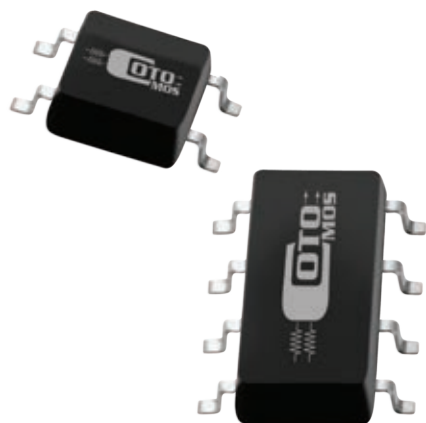
Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS C245S/C345S

The C245S and C345S feature current switching capability to 100mA with a low on resistance of 14Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 60V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.



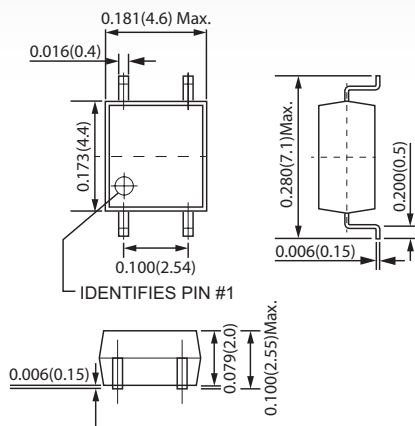
C245S/C345S Features

- ▶ Contact Form: C245S: 1a / C345S: 2a
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 100mA Maximum
- ▶ On-Resistance: 14Ω Maximum
- ▶ Output Capacitance: 20pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

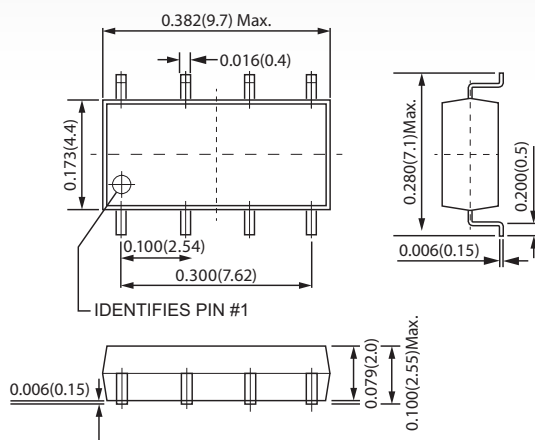
DIMENSIONS

in Inches (Millimeters)

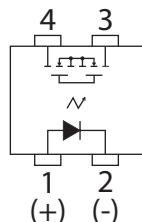
C245S



C345S

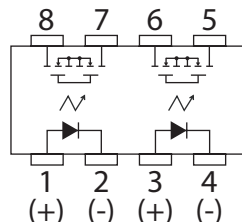


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

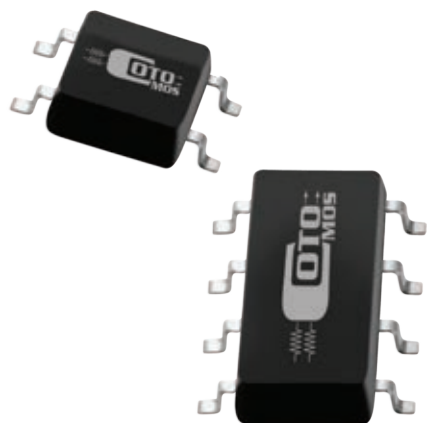
C245S/C345S MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	60V (AC peak or DC)
Load Current	I _L	A	100mA
Peak Load Current	I _{Peak}	A	350mA
Output Power Dissipation	P _{Out}	mW	200mW (1Ch) / 400mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	225mW (1Ch) / 450mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C245S/C345S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA			3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω			14
Off-State Leakage Current	I _{Leak}	V _L =60V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		20	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms			3.0
Turn-Off Time	T _{Off}		ms			1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C574S/C674S

The C574S and C674S feature current switching capability to 70mA with a low on resistance of 50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

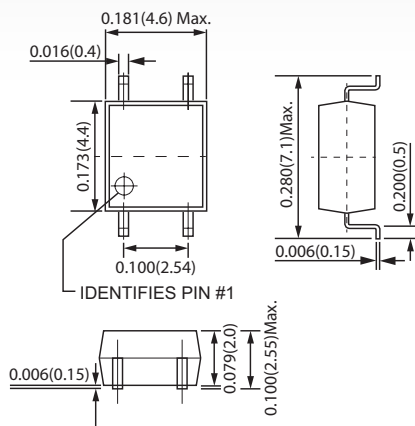
C574S/C674S Features

- ▶ Contact Form: C574S: 1b / C674S: 2b
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C574S: 70mA Maximum / C674S: 60mA Maximum
- ▶ On-Resistance: 50Ω Maximum
- ▶ Output Capacitance: 165pF Typical
- ▶ Low Off-State Leakage Current: 10μA Maximum

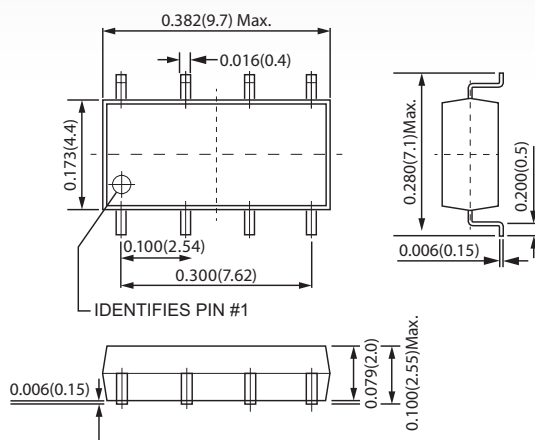
DIMENSIONS

in Inches (Millimeters)

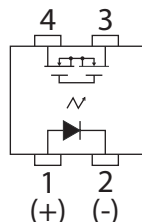
C574S



C674S

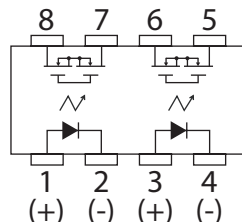


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C574S/C674S MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	70mA (1Ch) / 60mA (2Ch)
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	300mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C574S/C674S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		30	50
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		165	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.05	3.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS C774S

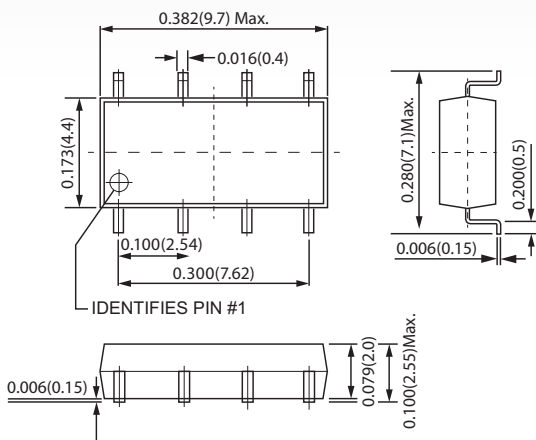
The C774S features current switching capability to 80/60mA with a low on resistance of 30/50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

C774S Features

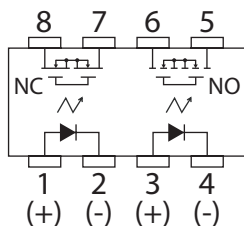
- ▶ Contact Form: 1a+1b
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 80mA Maximum (NO) 60mA Maximum (NC)
- ▶ On-Resistance: 30Ω Maximum (NO) 50Ω Maximum (NC)
- ▶ Output Capacitance: 115pF Typical (NO) 165pF Typical (NC)
- ▶ Low Off-State Leakage Current: 1.0μA Maximum (NO) 10μA Maximum (NC)

DIMENSIONS

in Inches (Millimeters)



TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

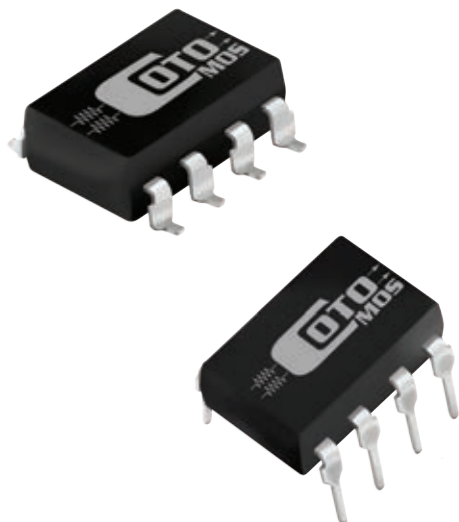
5,6,7,8: Drain
(MOSFET)

C774S MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	80mA (NO) / 60mA (NC)
Peak Load Current	I _{Peak}	A	0.4A
Output Power Dissipation	P _{Out}	mW	400mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	450mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C774S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA (NO), I _F =0mA (NC), I _L =Rating Time to flow is within 1 sec.	Ω		24 (NO) 30 (NC)	30 (NO) 50 (NC)
Off-State Leakage Current	I _{Leak}	I _F =0mA (NO), I _F =5mA (NC), V _L =400V	μA			1 (NO) 10 (NC)
Output Capacitance	C _{Out}	I _F =0mA (NO), I _F =5mA (NC) V _L =0V, f=1MHz	pF		115 (NO) 165 (NC)	
TRANSMISSION						
Operate Time	T _{On} (NO) T _{Off} (NC)	I _F =0mA → 5mA (NC), I _L =Rating	ms		0.25 (NO) 0.5 (NC)	2.0
Recovery Time	T _{Off} (NO) T _{On} (NC)	I _F =0mA → 5mA (NC), I _L =50mA	ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS CT326/CS326

The CT326 and CS326 feature high current switching capability to 2.0A with a low on resistance of 0.5Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS[®] relay is capable of handling 40V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

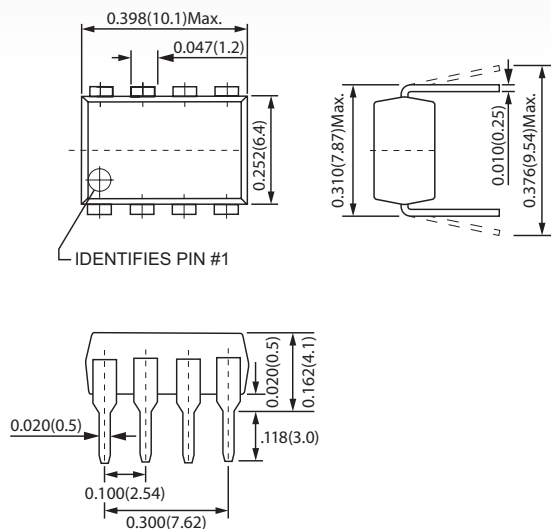
CT326/CS326 Features

- ▶ Contact Form: 2a
- ▶ Load Voltage: 40V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.0A Maximum
- ▶ On-Resistance: 0.5Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum

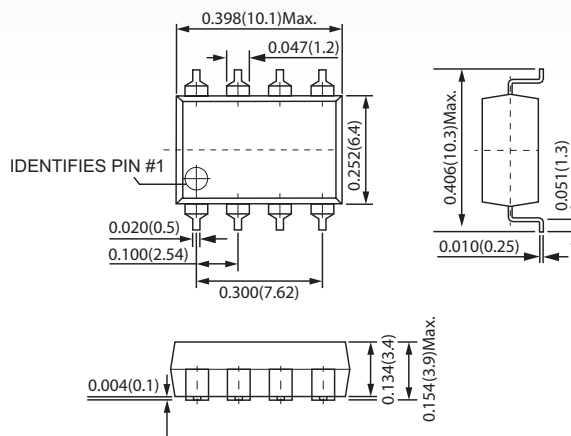
DIMENSIONS

in Inches (Millimeters)

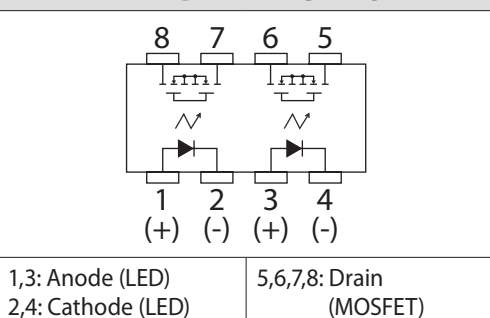
CT326



CS326



TERMINAL IDENTIFICATION



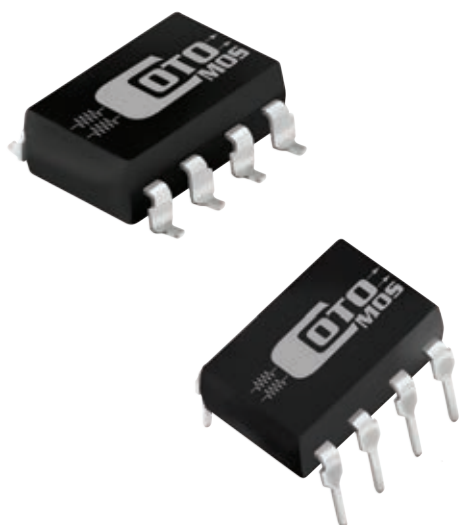
CT326/CS326 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	40V (AC peak or DC)
Load Current	I _L	A	2.0A
Peak Load Current	I _{Peak}	A	3.5A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT326/CS326 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0	1.37	1.5
Operation LED Current	I _{F On}		mA		0.5	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.1	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.085	0.5
Off-State Leakage Current	I _{Leak}	V _L =40V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		240	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.5	3.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS CT330/CS330

The CT330 and CS330 feature current switching capability to 100mA with a low on resistance of 30Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS[®] relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

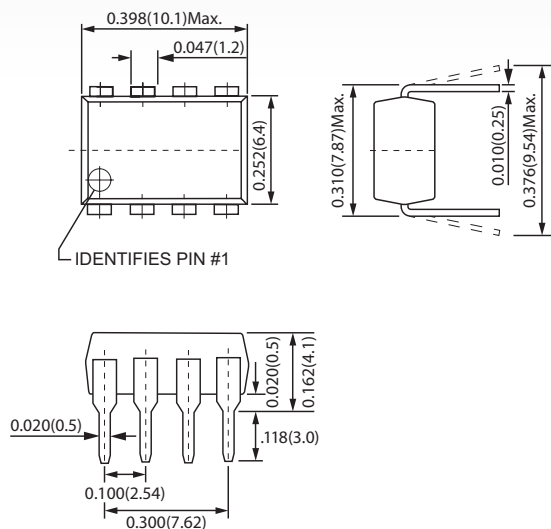
CT330/CS330 Features

- ▶ Contact Form: 2a
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 100mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum

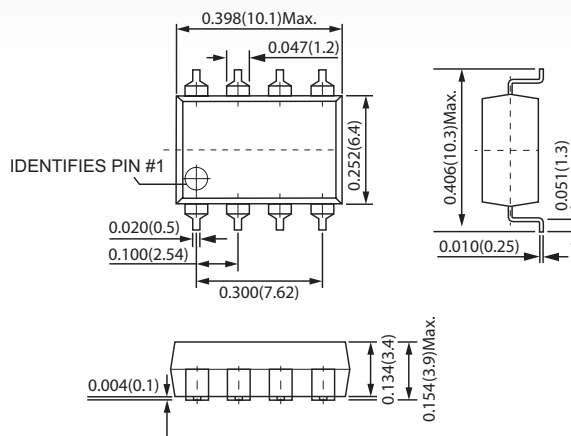
DIMENSIONS

in Inches (Millimeters)

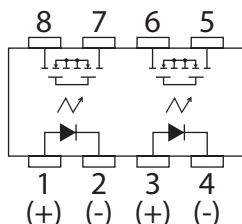
CT330



CS330



TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

5,6,7,8: Drain
(MOSFET)

CT330/CS330 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	100mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT330/CS330 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		24	30
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

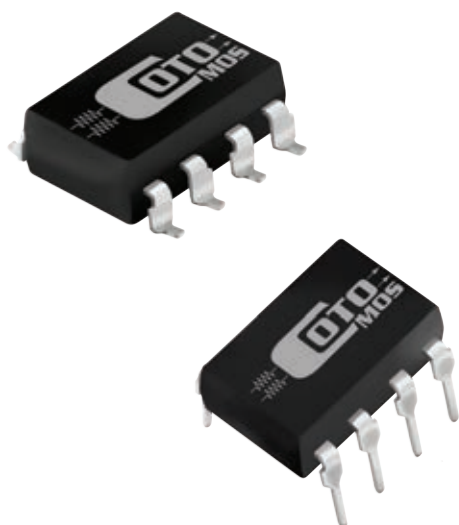
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT331/CS331

The CT331 and CS331 feature current switching capability to 110mA with a low on resistance of 24 Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS[®] relay is capable of handling 350V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT331/CS331 Features

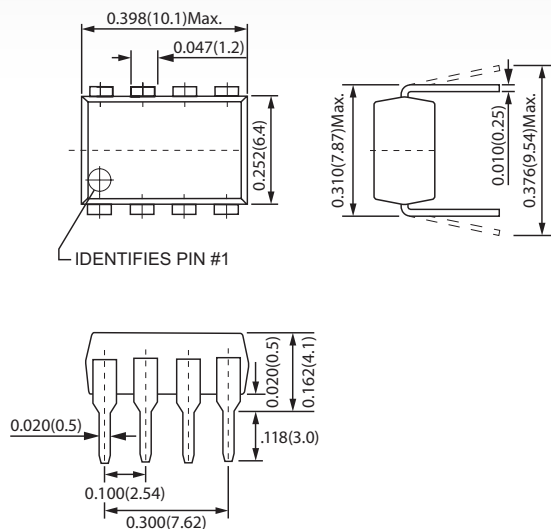
- ▶ Contact Form: 2a
- ▶ Load Voltage: 350V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 110mA Maximum
- ▶ On-Resistance: 24 Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0 μ A Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



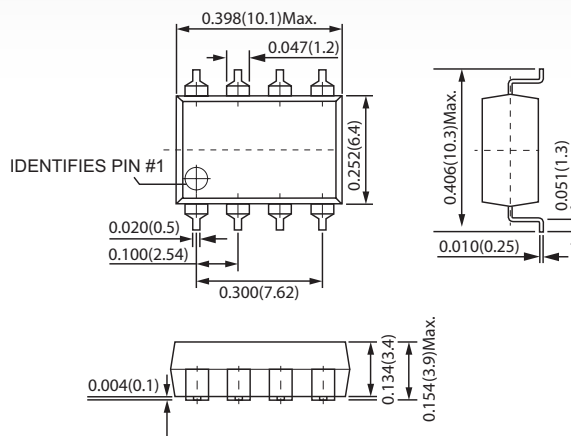
DIMENSIONS

in Inches (Millimeters)

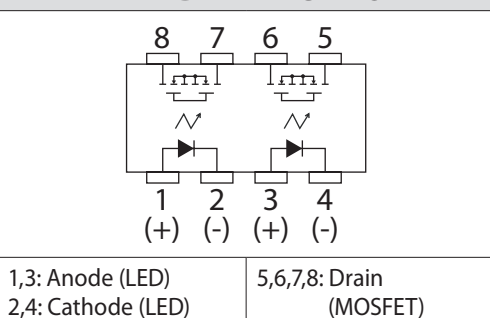
CT331



CS331



TERMINAL IDENTIFICATION



CT331/CS331 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	350V (AC peak or DC)
Load Current	I _L	A	110mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT331/CS331 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		17	24
Off-State Leakage Current	I _{Leak}	V _L =350V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

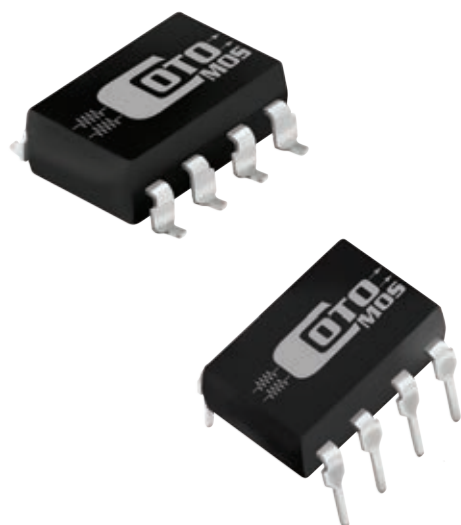
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT334/CS334

The CT334 and CS334 feature current switching capability to 180mA with a low on resistance of 8Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 200V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT334/CS334 Features

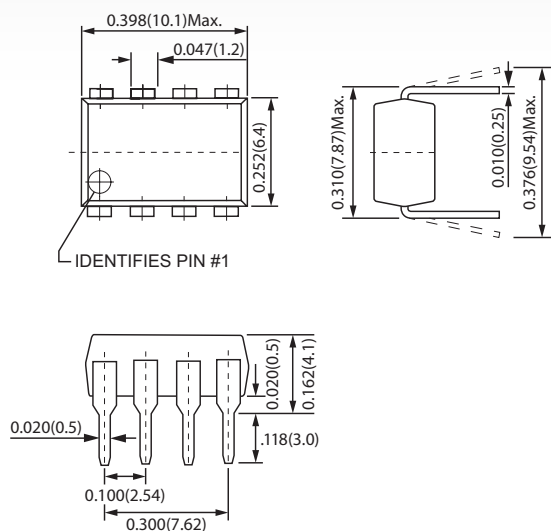
- ▶ Contact Form: 2a
- ▶ Load Voltage: 200V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 180mA Maximum
- ▶ On-Resistance: 8Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



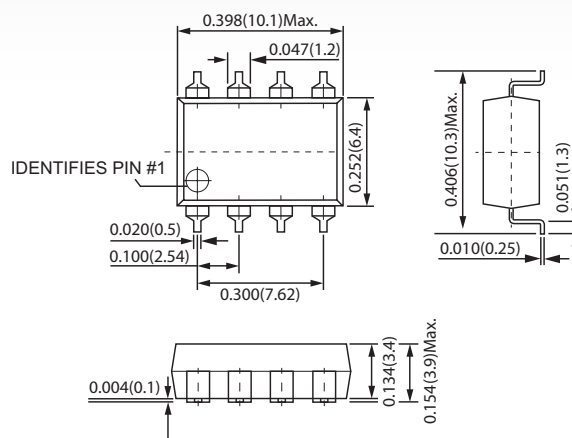
DIMENSIONS

in Inches (Millimeters)

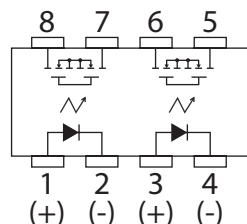
CT334



CS334



TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

5,6,7,8: Drain
(MOSFET)

CT334/CS334 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	200V (AC peak or DC)
Load Current	I _L	A	180mA
Peak Load Current	I _{Peak}	A	0.8A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT334/CS334 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		6.0	8.0
Off-State Leakage Current	I _{Leak}	V _L =200V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		130	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

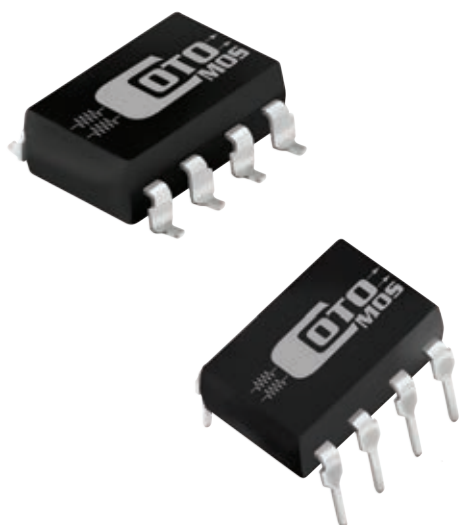
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT335/CS335

The CT335 and CS335 feature current switching capability to 80mA with a low on resistance of 30Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 80V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT335/CS335 Features

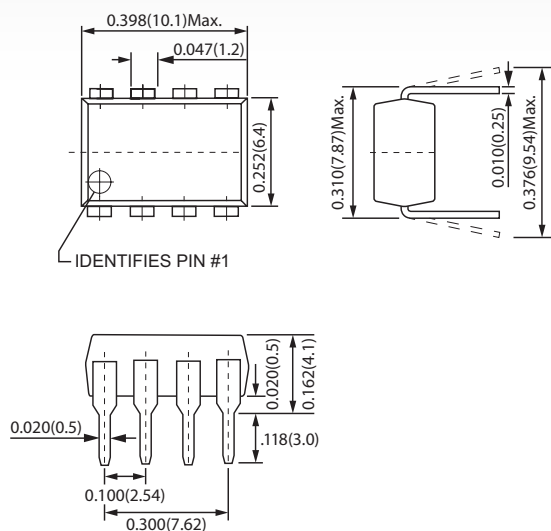
- ▶ Contact Form: 2a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 80mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 10nA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



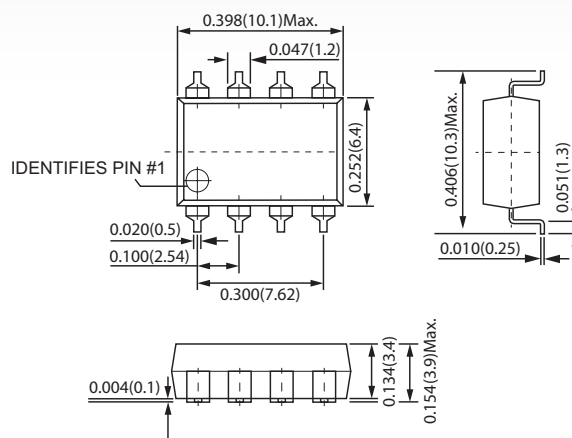
DIMENSIONS

in Inches (Millimeters)

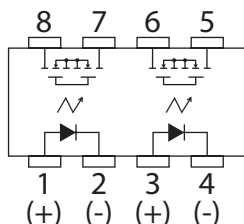
CT335



CS335



TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

5,6,7,8: Drain
(MOSFET)

CT335/CS335 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	80V (AC peak or DC)
Load Current	I _L	A	80mA
Peak Load Current	I _{Peak}	A	0.3A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT335/CS335 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		20	30
Off-State Leakage Current	I _{Leak}	V _L =80V	nA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		6.0	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.02	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

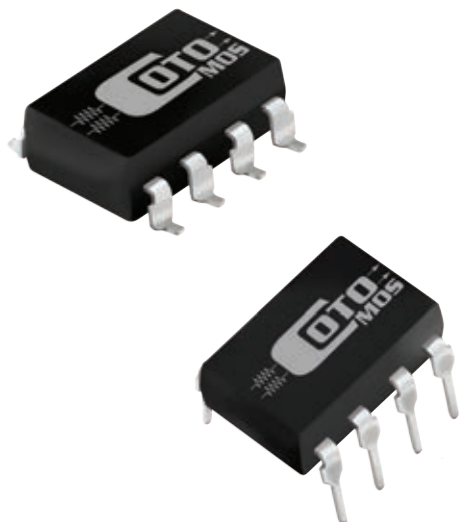
Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT337/CS337

The CT337 and CS337 feature current switching capability to 360mA with a low on resistance of 1.6Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 60V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT337/CS337 Features

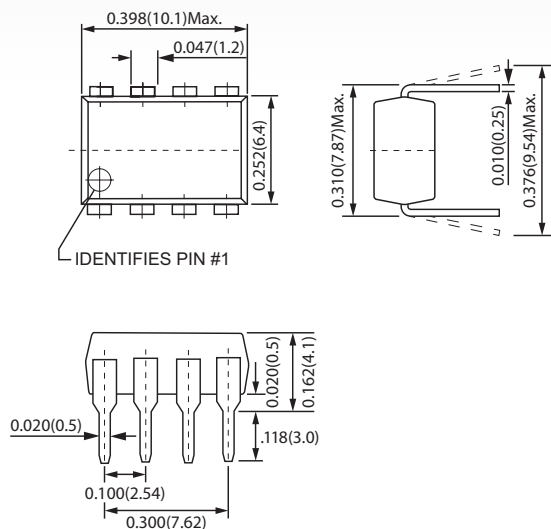
- ▶ Contact Form: 2a
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 360mA Maximum
- ▶ On-Resistance: 1.6Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



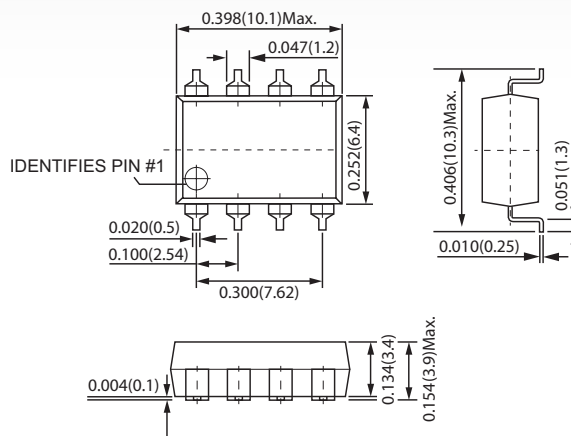
DIMENSIONS

in Inches (Millimeters)

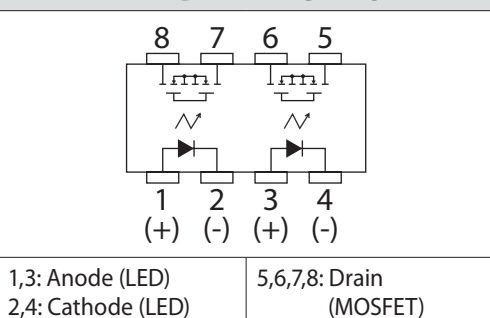
CT337



CS337



TERMINAL IDENTIFICATION



CT337/CS337 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	60V (AC peak or DC)
Load Current	I _L	A	360A
Peak Load Current	I _{Peak}	A	2.0A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

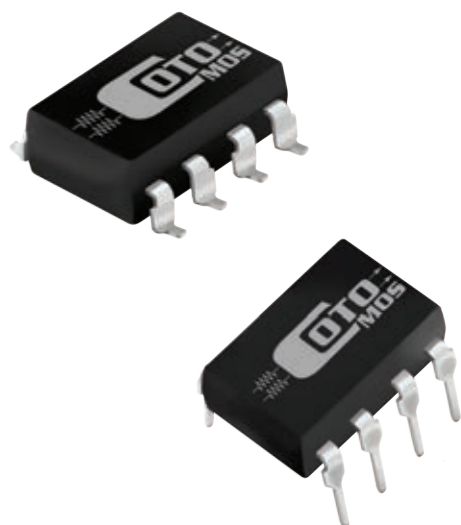
CT337/CS337 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.8	1.6
Off-State Leakage Current	I _{Leak}	V _L =60V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		195	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.3	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.



CotoMOS CT338/CS338

The CT338 and CS338 feature current switching capability to 70mA with a low on resistance of 60Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS[®] relay is capable of handling 600V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

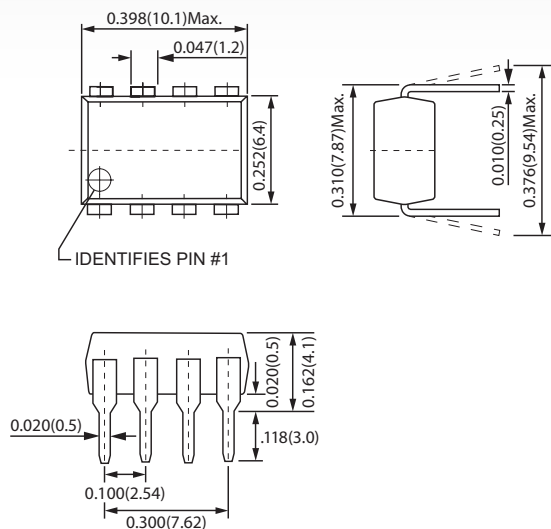
CT338/CS338 Features

- ▶ Contact Form: 2a
- ▶ Load Voltage: 600V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 70mA Maximum
- ▶ On-Resistance: 60Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum

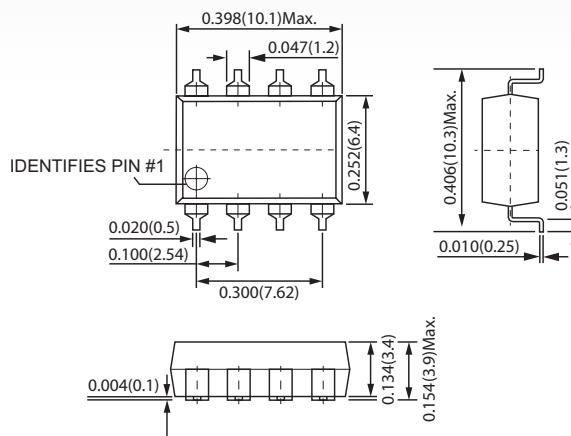
DIMENSIONS

in Inches (Millimeters)

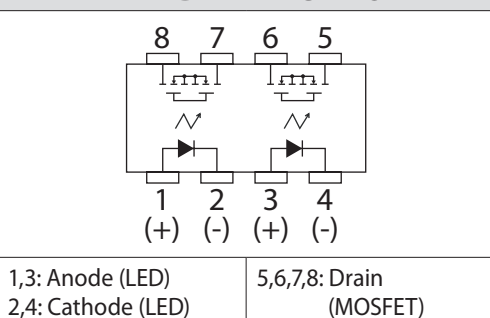
CT338



CS338



TERMINAL IDENTIFICATION



CT338/CS338 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	600V (AC peak or DC)
Load Current	I _L	A	70mA
Peak Load Current	I _{Peak}	A	0.2A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT338/CS338 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		35	60
Off-State Leakage Current	I _{Leak}	V _L =600V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		95	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.1	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

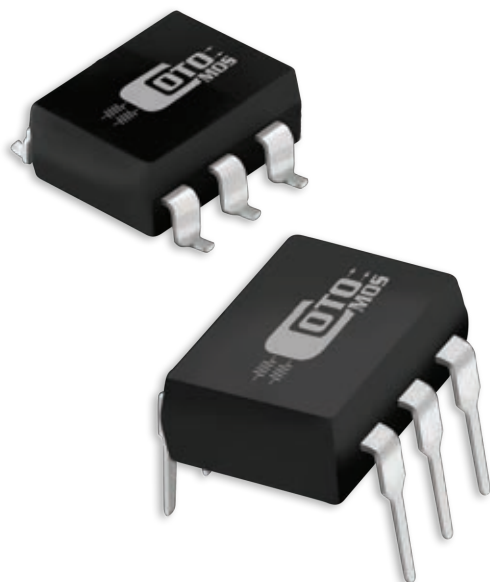
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT474/CS474

The CT474 and CS474 feature current switching capability to 90mA with a low on resistance of 50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT474/CS474 Features

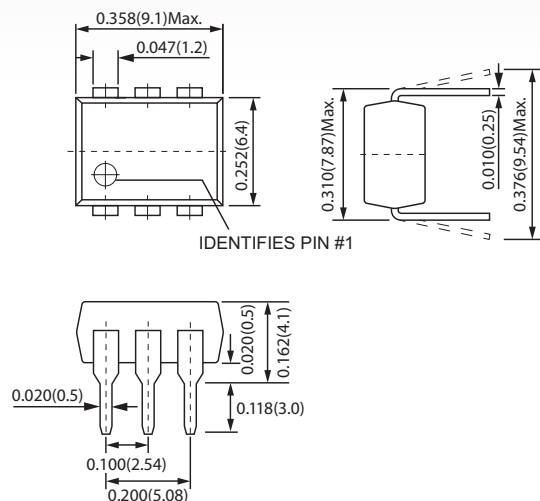
- ▶ Contact Form: 1b
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 90mA Maximum
- ▶ On-Resistance: 50Ω Maximum
- ▶ Low Off-State Leakage Current: 10μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



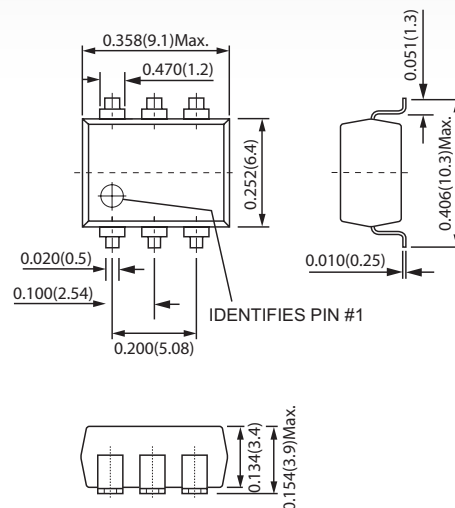
DIMENSIONS

in Inches (Millimeters)

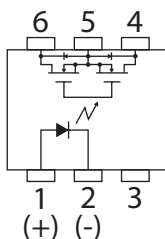
CT474



CS474



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT474/CS474 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	90mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT474/CS474 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =10mA, I _L =Rating Time to flow is within 1 sec.	Ω		30	50
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		165	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.35	2.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

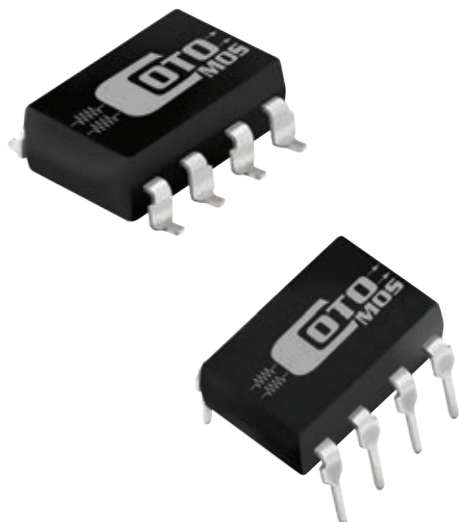
All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT674/CS674

The CT674 and CS674 feature current switching capability to 80mA with a low on resistance of 50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

CT674/CS674 Features

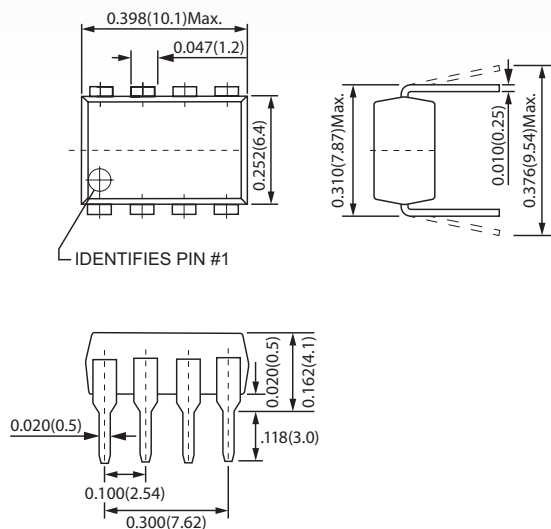
- ▶ Contact Form: 2b
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 80mA Maximum
- ▶ On-Resistance: 50Ω Maximum
- ▶ Low Off-State Leakage Current: 10μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum



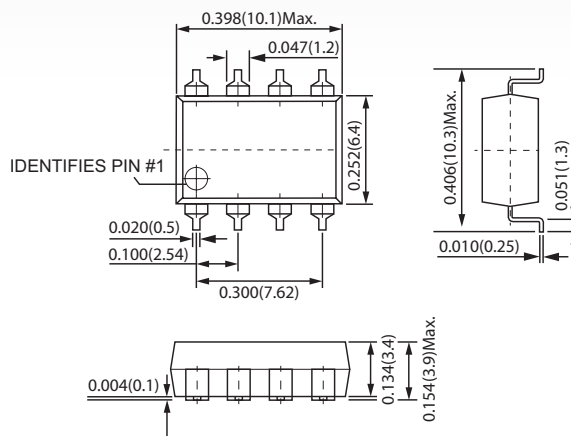
DIMENSIONS

in Inches (Millimeters)

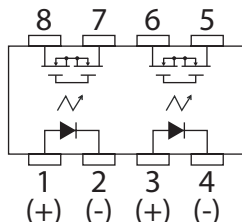
CT674



CS674



TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)

5,6,7,8: Drain
(MOSFET)

CT674/CS674 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	80mA
Peak Load Current	I _{Peak}	A	0.6A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

CT674/CS674 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =10mA, I _L =Rating Time to flow is within 1 sec.	Ω		30	50
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			10
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		165	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.35	2.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.

CotoMOS CT774/CS774

The CT774 and CS774 feature current switching capability to 80/100mA with a low on resistance of 30/50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

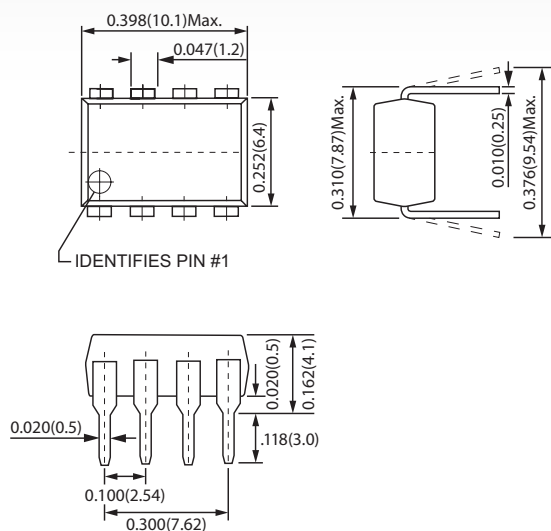
CT774/CS774 Features

- ▶ Contact Form: 1a+1b
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 100mA Maximum (NO) 80mA Maximum (NC)
- ▶ On-Resistance: 30Ω Maximum (NO) 50Ω Maximum (NC)
- ▶ Low Off-State Leakage Current: 1.0μA Maximum (NO) 10μA Maximum (NC)
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum

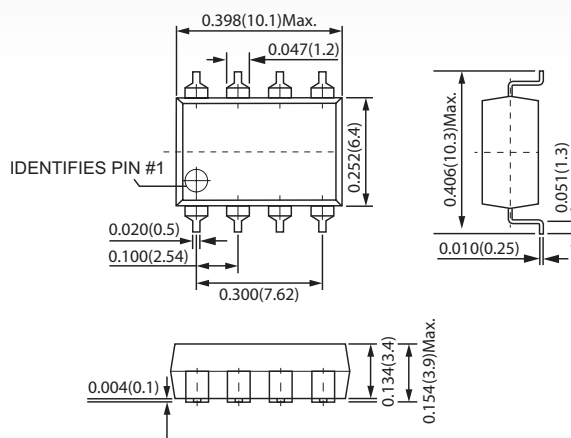
DIMENSIONS

in Inches (Millimeters)

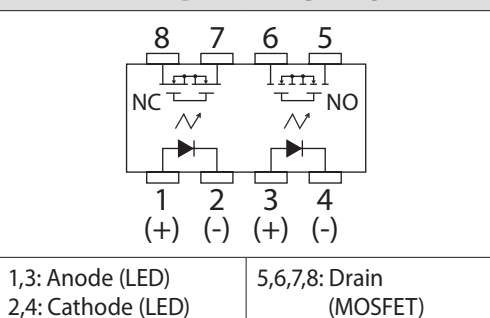
CT774



CS774



TERMINAL IDENTIFICATION



CT774/CS774 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	400V (AC peak or DC)
Load Current	I _L	A	100mA (NO) 80mA (NC)
Peak Load Current	I _{Peak}	A	0.4A
Output Power Dissipation	P _{Out}	mW	600mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	650mW
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

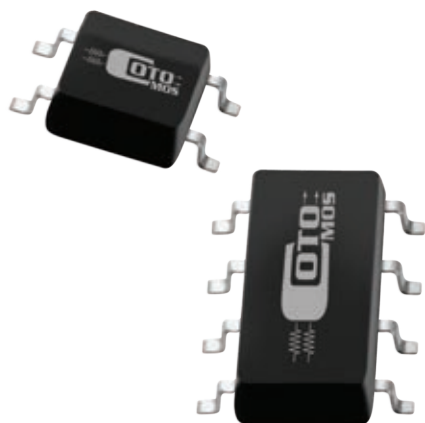
CT774/CS774 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =1mA(NO), I _L =Rating Time to flow is within 1 sec.	Ω		24(NO) 30(NC)	30(NO) 50(NC)
Off-State Leakage Current	I _{Leak}	I _F =0mA (NO), I _F =5mA (NC), V _L =400V	μA			1(NO) 10(NC)
Output Capacitance	C _{Out}	I _F =0mA (NO), I _F =5mA (NC), V _L =0V, f=1MHz	pF		115(NO) 165(NC)	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =0mA → 10mA (NC), I _F =Rating	ms		0.2(NO) 0.35(NC)	2.0
Turn-Off Time	T _{Off}	I _F =10mA → 0mA (NC), I _L =Rating	ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85°C; Storage Temp: -40 to +100°C.

All electrical parameters measured at 25°C unless otherwise specified.



CotoMOS C238S/C338S

When small size and high performance are needed, the SOP package, such as the C238S or C338S, is the industry choice. Both the C238S and the C338S feature low on resistance fast turn on time. In addition, the C338S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

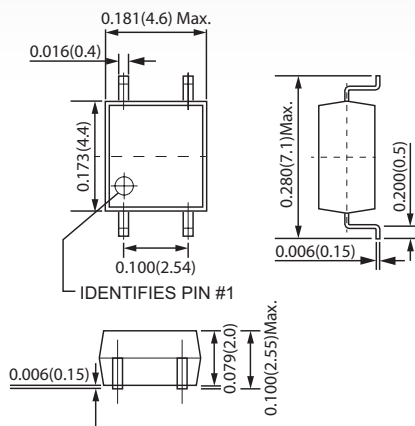
C238S/C338S Features

- ▶ Contact Form: C238S: 1a / C338S: 2a
- ▶ Load Voltage: 600V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C238S: 70mA Maximum / C338S: 60mA Maximum
- ▶ On-Resistance: 60Ω Maximum
- ▶ Output Capacitance: 95pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

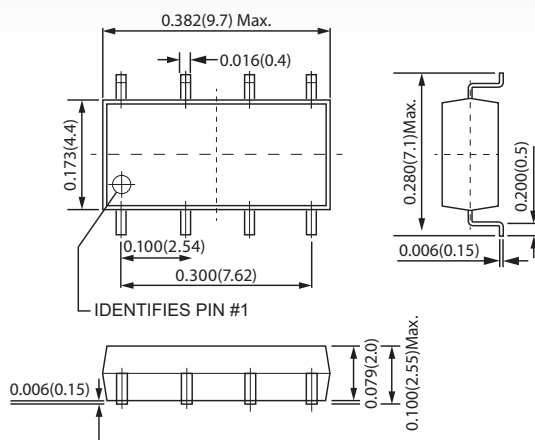
DIMENSIONS

in Inches (Millimeters)

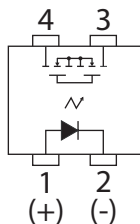
C238S



C338S

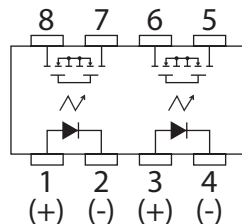


TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3,4: Drain (MOSFET)

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

C238S/C338S MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50mA
Peak LED Current	I _{FP}	mA	500mA
LED Reverse Voltage	V _R	V	5V
Input Power Dissipation	P _{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V	600V (AC peak or DC)
Load Current	I _L	A	70mA (1Ch) / 60mA (2Ch)
Peak Load Current	I _{Peak}	A	200mA
Output Power Dissipation	P _{Out}	mW	300mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V _{I/O}	V	1500Vrms
Operating Temperature	T _{Opr}		-40°C ~ +85°C
Storage Temperature	T _{Stg}		-40°C ~ +100°C

C238S/C338S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0	1.17	1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.0	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		35	60
Off-State Leakage Current	I _{Leak}	V _L =600V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		95	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating (for SOP type)	ms		0.2	0.5
Turn-Off Time	T _{Off}		ms		0.05	0.2
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.

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