

**ABSOLUTE MAXIMUM RATINGS AT TA=25**

PARAMETER	MAXIMUM RATING	UNIT
IR Diode Continuous Forward Current	60	mA
IR Diode Reverse Voltage	5	V
Transistor Collector Current	20	mA
Transistor Power Dissipation	75	mW
IR Diode Peak Forward Current (Pulse Wide = 10 μ S, 300 pps)	1	A
Diode Power Dissipation	100	mW
Phototransistor Collector-Emitter Voltage	30	V
Phototransistor Emitter-Collector Voltage	5	V
Operating Temperature Range	-25 to + 85	
Storage Temperature Range	-40 to + 100	
Lead Soldering Temperature [1.6mm(.063") From Case]	260 for 5 Seconds	

**ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25**

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT LED							
Forward Voltage		V _F		1.2	1.6	V	I _F = 20mA
Reverse Current		I _R			100	μ A	V _R =5V
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Breakdown Voltage		V(BR) _{CEO}	30			V	I _C =1mA
Emitter-Collector Breakdown Voltage		V(BR) _{ECO}	5			V	I _E =100 μ A
Collector-Emitter Dark Current		I _{CEO}			100	nA	V _{CE} =10V
COUPLER							
Collector-Emitter Saturation Voltage		V _{CE} (SAT)			0.4	V	I _C =2.5mA I _F =20mA
On State Collector Current		I _C (ON)	5.0			mA	V _{CE} =5V I _F =20mA
Response Time	Rise Time	t _r		3	15	μS	V _{CE} =5V, I _C =2mA R _L =100Ω
	Fall Time	t _f		4	20		

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

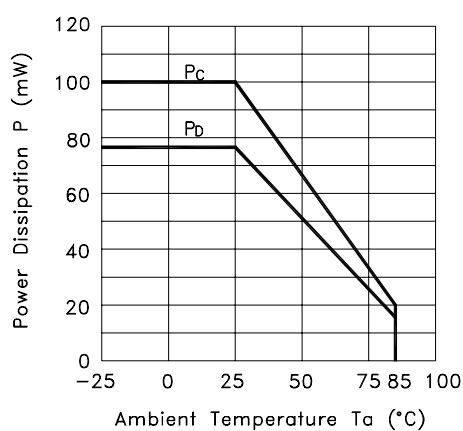


Fig.2 Forward Current vs. Forward Voltage

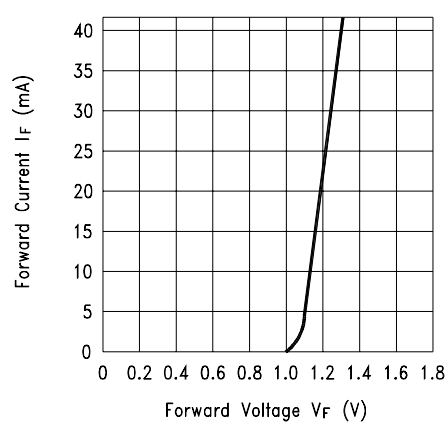


Fig.3 Collector Current vs. Collector-emitter Voltage

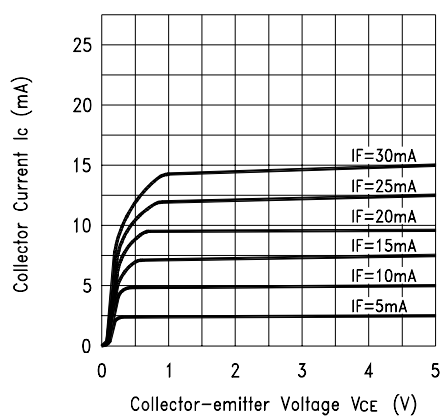
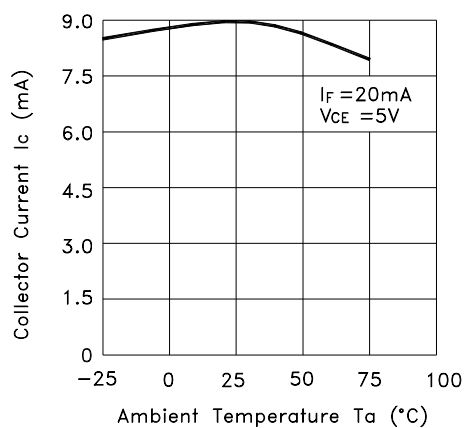


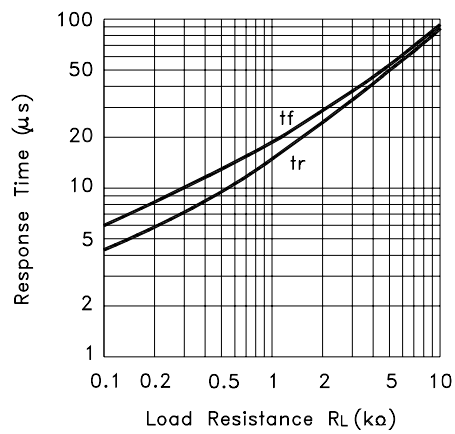
Fig.4 Collector Current vs. Ambient Temperature



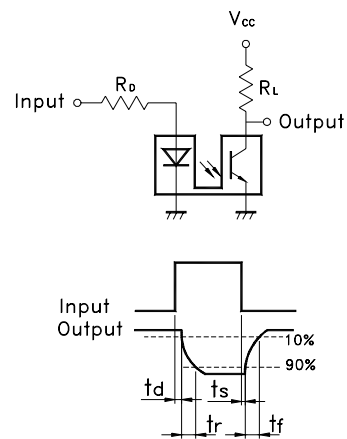
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.5 Response Time vs.
Load Resistance



Test Circuit for Response Time



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