

Interface

Transceivers

Mfr.'s Type		Power Supply (V)	No. of RS-232 Drivers	No. of RS-232 Receivers	No. of External 1.0 µF Capacitors	Low Power Shutdown	Tri-State	No. of Leads
PDIP Package	SOIC Package							
HIN232CP ICL232CPE	— ICL232CBE	+5.0 +5.0	2 2	2 2	4 4	No No	No No	16 16

Multiplexers

Mfr.'s Type	Device Type*	R _{DS(ON)} (Ω Max.)	V _{IH} Min. (V)	V _{IL} Max. (V)	I _{OFF} Typ. (±nA)	T _{ON} Typ. (ns)	T _{OFF} Typ. (ns)	Features
DG408DJ DG409DJ	Single 8 Channel Mux Dual 4 Channel Mux	40 40	2.4 2.4	0.8 0.8	1 1	115 115	105 105	Low R _{DS(ON)} Low R _{DS(ON)}

*Technology: 44 V CMOS-JL.

Switches

Mfr.'s Type	Device Type*	R _{DS(ON)} (Ω Max.)	Switch "ON" (V)	Switch "OFF" (V)	I _{OFF} Typ. (±nA)	T _{ON} Typ. (ns)	T _{OFF} Typ. (ns)	Features
DG403DJ DG411DJ DG412DJ	Dual Single Pole Double Throw Quad Single Pole Single Throw Quad Single Pole Single Throw	45 35 35	2.4 2.4 0.8	0.8 0.8 2.4	−0.01 −0.10 −0.10	100 110 110	60 100 100	Very Low R _{DS(ON)} Very Low R _{DS(ON)} Very Low R _{DS(ON)}
DG444DJ DG445DJ	Quad Single Pole Single Throw Quad Single Pole Single Throw	85 85	0.8 2.4	2.4 0.8	0.01 0.01	150 150	90 110	Low R _{DS(ON)} Low R _{DS(ON)}

*Technology: 44 V CMOS-JL.

Low Side Switches

Bipolar Types

Mfr.'s Type	Description	Max. Output Voltage No Load (V)	Max. Rated DC Load Current (A)	Max. V _{GSAT} Output Voltage	Max. Load Switching V _{CE(SUS)} or V _{CLAMP} Limited (V)	Output Current Limiting and/or Shutdown Protection (A)	Output Thermal Limiting and/or Shutdown Protection (Temperature T _J)	Thermal Shutdown Hysteresis	Fault Indicator Flag	Diagnostic Feedback	Temperature Range (°C)	Package Type
CA3242E	Quad-Gated Inverting Power Driver for Interfacing Low-Level Logic to High Current Load	50	0.60	0.8 V at 0.6 A	35	1.4*	No	No	No	No	−40 to +105	16 Lead DIP
CA3262E	Quad-Gated Inverting Power Drivers	60	0.70	0.6 V at 0.6 A	40	1.6	+150°C	No	No	No	−40 to +85	16 Lead DIP

*Latches off.

High Side Switches

MOSFET Types Recommended for SMPS, FET Drivers and Motor Control Applications

Mfr.'s Type	Description	Function	Max Supply (V)	DC Supply Range (V)	Peak Max. Current (A)	Max. Frequency	Package Type
ICL7667CPA	Dual Power MOSFET Driver	Dual Power	15	4.5 to 15	1.5 (Pulsed Gate)	200 KHz	8 Lead PDIP

Protection Circuits

Mfr.'s Type	Description	Supply Voltage Range (V)	Over Voltage Turn-On Threshold (V)	Temperature Range (°C)	Package Type
SP720AB SP720AP SP721AB SP721AP	Electronic Protection Array for ESD and Overvoltage Protection Electronic Protection Array for ESD and Overvoltage Protection Electronic Protection Array for ESD and Overvoltage Protection Electronic Protection Array for ESD and Overvoltage Protection	4.5 to 30 4.5 to 30 4.5 to 30 4.5 to 30	+V _{BE} Above V _{CC} or −V _{BE} Below GND +V _{BE} Above V _{CC} or −V _{BE} Below GND +V _{BE} Above V _{CC} or −V _{BE} Below GND +V _{BE} Above V _{CC} or −V _{BE} Below GND	−40 to +105 −40 to +105 −40 to +105 −40 to +105	16 Lead SOIC 16 Lead PDIP 8 Lead SOIC 8 Lead PDIP

Power Supply Circuits

Mfr.'s Type	Description	Input Voltage Range (V)	Output Voltage Range (V)	Maximum Output Current	Switching Frequency (KHz)	Quiescent Current	Temperature Range (°C)	Package Type
CA3524E ICL7660ACPA ICL7660SCPA ICL7662CPA ICL7663SCPA	Pulse Width Modulator Voltage Converter Super Voltage Converter (Charge Pump Type) Voltage Converter (Charge Pump Type) Linear Voltage Regulator	8.0 to 40 1.5 to 12 1.5 to 12 4.5 to 20 1.6 to 16	4.6 to 5.4* −1.5 to 18.6 −1.5 to ±22.8 −4.5 to ±38.8 1.3 to 16	100 mA — 45 mA 90 mA †	1 to 300 10 10 to 35 10 —	10.0 mA 165.0 µA 180.0 µA 200.0 µA 12.0 µA	0 to +70 0 to +70 0 to +70 0 to +70 0 to +70	16 Lead PDIP 8 Lead PDIP 8 Lead PDIP 8 Lead PDIP 8 Lead PDIP

*Reference Voltages: Output voltage limited by external device. †40 mA — V_{OUT2}; R_{ON} — 100 — V_{OUT2}.

Comparators

Dual

Mfr.'s Type	Description	V _{IO} Max. (mV)	I _I Max. (nA)	I ₊ Max. (mA)	Max. V ₊ , V _−	A _{OL} Min. (dB)	Response Time	Package Type
CA3290E CA3290AE	BiMOS Dual Voltage Comparator with MOSFET Input/Bipolar Output BiMOS Dual Voltage Comparator with MOSFET Input/Bipolar Output	20 10	50 pA 40 pA	3.0 3.0	±18 ±18	88 88	t _R =1.2 µs, t _R =200 ns t _R =1.2 µs, t _R =200 ns	8 Lead PDIP 8 Lead PDIP

Quad

CA0339E	Quad Voltage Comparator	5	250	2.0	±18	94	t _R =1.3 µs, t _R =750 ns	14 Lead PDIP
---------	-------------------------	---	-----	-----	-----	----	--	--------------