Interface

Transceivers

1 µF, RS-232 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	—	+5.0	2	2	4	No	No	16
ICL232CPE	ICL232CBE	+5.0	2	2	4	No	No	16

Multiplexers

Mfr.'s Type	Device Type*	$R_{DS(ON)}$ (Ω Max.)	V_{AH} Min. (v)	V_{AL} Max. (V)	I_{DOFF} Typ. (±nA)	T_{ON} Typ. (ns)	T_{OFF} Typ. (ns)	Features
DG408DJ	Single 8 Channel Mux	40	2.4	0.8	1	115	105	Low $R_{DS(ON)}$
DG409DJ	Dual 4 Channel Mux	40	2.4	0.8	1	115	105	Low $R_{DS(ON)}$

***Technology:** 44 V CMOS-JI.

Switches

Mfr.'s Type	Device Type*	$R_{DS(ON)}$ (Ω Max.)	Switch "ON" (V)	Switch "OFF" (V)	I_{SOFF} Typ. (±nA)	T_{ON} Typ. (ns)	T_{OFF} Typ. (ns)	Features
DG403DJ	Dual Single Pole Double Throw	45	2.4	0.8	–0.01	100	60	Very Low $R_{DS(ON)}$
DG411DJ	Quad Single Pole Single Throw	35	2.4	0.8	–0.10	110	100	Very Low $R_{DS(ON)}$
DG412DJ	Quad Single Pole Single Throw	35	0.8	2.4	–0.10	110	100	Very Low $R_{DS(ON)}$
DG444DJ	Quad Single Pole Single Throw	85	0.8	2.4	0.01	150	90	Low $R_{DS(ON)}$
DG445DJ	Quad Single Pole Single Throw	85	2.4	0.8	0.01	150	110	Low $R_{DS(ON)}$

***Technology:** 44 V CMOS-JI.

Low Side Switches

Bipolar Types

Mfr.'s Type	Description	Max. Output Voltage No Load (V)	Max. Rated DC Load Current (A)	Max. V_{SAT} Output Voltage	Max. Load Switching V_{CESUS} 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

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Protection Circuits

Mfr.'s Type	Description	Supply Voltage Range (V)	Over Voltage Turn-On Threshold (V)	Temperature Range (°C)	Package Type
SP720AB	Electronic Protection Array for ESD and Overvoltage Protection	4.5 to 30	$+V_{BE}$ Above V_{CC} or $–V_{BE}$ Below GND	–40 to +105	16 Lead SOIC
SP720AP	Electronic Protection Array for ESD and Overvoltage Protection	4.5 to 30	$+V_{BE}$ Above V_{CC} or $–V_{BE}$ Below GND	–40 to +105	16 Lead PDIP
SP721AB	Electronic Protection Array for ESD and Overvoltage Protection	4.5 to 30	$+V_{BE}$ Above V_{CC} or $–V_{BE}$ Below GND	–40 to +105	8 Lead SOIC
SP721AP	Electronic Protection Array for ESD and Overvoltage Protection	4.5 to 30	$+V_{BE}$ Above V_{CC} or $–V_{BE}$ Below GND	–40 to +105	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	Pulse Width Modulator	8.0 to 40	4.6 to 5.4*	100 mA	1 to 300	10.0 mA	0 to +70	16 Lead PDIP
ICL7660ACPA	Voltage Converter	1.5 to 12	–1.5 to 18.6	—	10	165.0 µA	0 to +70	8 Lead PDIP
ICL7660SCPA	Super Voltage Converter (Charge Pump Type)	1.5 to 12	–1.5 to ±22.8	45 mA	10 to 35	180.0 µA	0 to +70	8 Lead PDIP
ICL7662CPA	Voltage Converter (Charge Pump Type)	4.5 to 20	–4.5 to ±38.8	90 mA	10	200.0 µA	0 to +70	8 Lead PDIP
ICL7663SCPA	Linear Voltage Regulator	1.6 to 16	1.3 to 16	†	—	12.0 µA	0 to +70	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	BiMOS Dual Voltage Comparator with MOSFET Input/Bipolar Output	20	50 pA	3.0	±18	88	t_R=1.2 µs, t_R=200 ns	8 Lead PDIP
CA3290AE	BiMOS Dual Voltage Comparator with MOSFET Input/Bipolar Output	10	40 pA	3.0	±18	88	t_R=1.2 µs, t_R=200 ns	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