TECHNICAL DATA
DATA SHEET 4207, REV. -

Isolated Diode Array

Applications:

- **High Frequency Data Lines**
- **RS-323 & RS-432 Networks**
- **LAN, Ethernet, I/O Ports**
- **IEC61000-4 compatible for ESD / EFT / Surge**

Features:

- **Protects up to 8 I/O Ports**
- **Isolated diodes eliminate crosstalk**
- **High Density Packaging**
- **High Breakdown Voltage; High Speed Switching (< 10 nsec)**
- **Low Capacitance; Low Leakage**
- **Hermetic Ceramic package**
- **TX, TXV, S level screening available**

Maximum Ratings:

All ratings are at 25 °C unless otherwise noted

Characteristics	Symbol	Condition	Max.	Units
Reverse Breakdown Voltage	V_{BR}	Per diode, Pulsed @ I_R = 5 µA P_w=300 µs +/- 50µs; duty ≤ 2%	75	Vdc
Continuous Forward Current	I_F	Per diode, Derate at 2.4 mA/°C above 25 °C	300	mA
Peak Surge Current	I_{FSM}	Per diode, tp=8.3 msec	500	mA
Power Dissipation	P_D	Per Junction	400	mW
Power Dissipation	P_D	Per Package, Derate at 4 mW/°C above 25 °C	500	mW
Max. Operating Temperature	T_J	-	-65 to +150	°C
Max. Storage Temperature	T_{stg}	-	-65 to +200	°C

Electrical Characteristics:

All ratings are per diode and at 25 °C unless otherwise noted

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	I_F = 100mA, Pulsed: P_w=300µs +/- 50µs; duty cycle ≤ 2%	1.00	V
Max. Reverse Current	I_{R1}	@V_R = 40V	0.1	µA
	I_{R2}	@V_R = 20V	25	nA
Max. Capacitance (Pin to Pin)	C_T	@V_R = 0V, F=1MHz	4.0	pF
Max. Forward Recovery Time	T_{FR}	I_F = 100mA	15	ns
Max. Reverse Recovery Time	T_{RR}	I_f = I_R = 10mA, i_{RR} = 1mA, R_L = 100 ohms	10	ns
Max. Forward Voltage Match	V_{F5}	I_f = 10mA	5	mV

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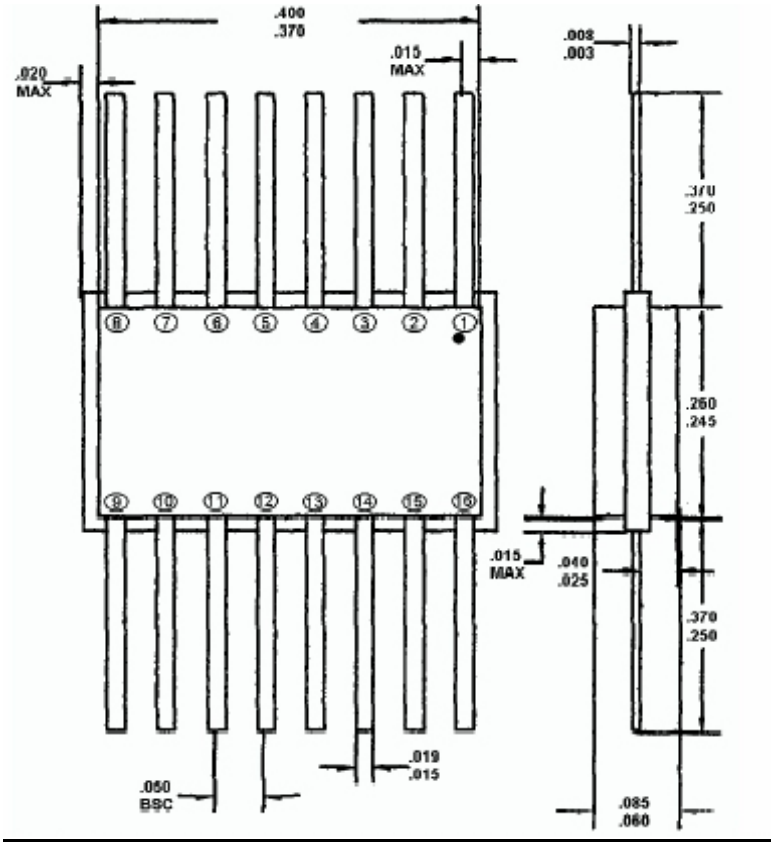
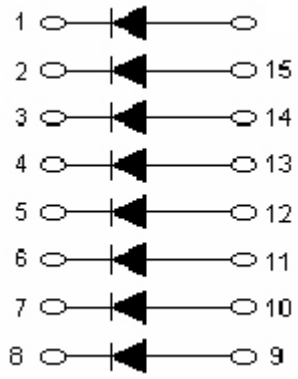
Mechanical Dimensions: in inches / mm



Electrical Schematic



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