

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

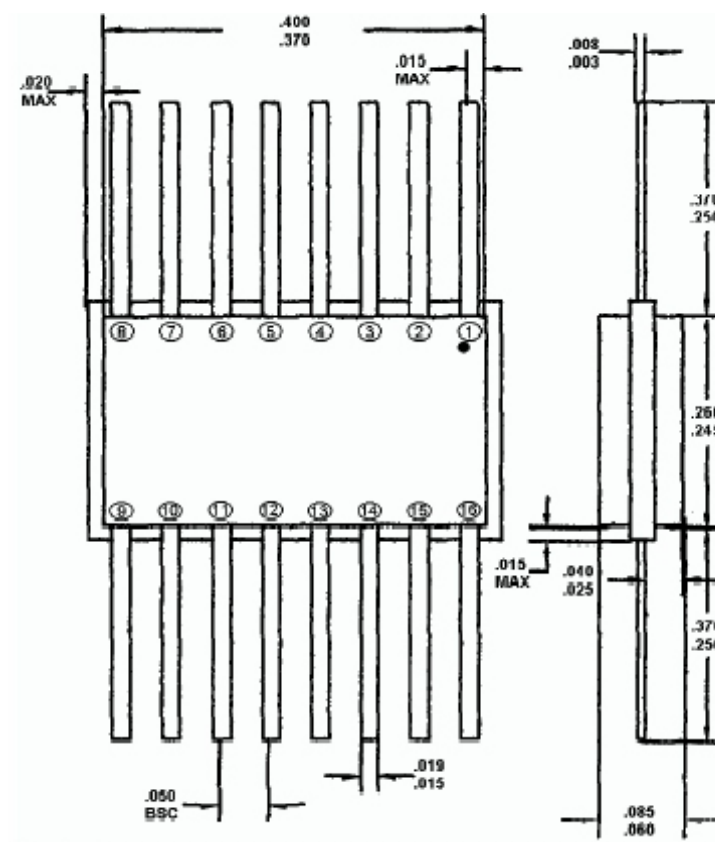
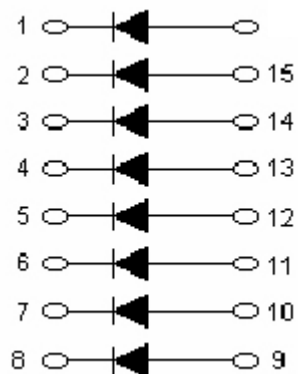
Characteristics	Symbol	Condition	Max.	Units
Reverse Breakdown Voltage	V_{BR}	Per diode, Pulsed @ $I_R = 5 \mu A$ $P_w = 300 \mu s \pm 50 \mu s$; duty $\leq 2\%$	75	Vdc
Continuous Forward Current	I_F	Per diode, Derate at $2.4 \text{ mA}/^\circ\text{C}$ above 25°C	300	mA
Peak Surge Current	I_{FSM}	Per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

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}	$I_F = 100 \text{ mA}$, Pulsed: $P_w = 300 \mu s$ $\pm 50 \mu s$; duty cycle $\leq 2\%$	1.00	V
Max. Reverse Current	I_{R1}	@ $V_R = 40 \text{ V}$	0.1	μA
	I_{R2}	@ $V_R = 20 \text{ V}$	25	nA
Max. Capacitance (Pin to Pin)	C_T	@ $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$	4.0	pF
Max. Forward Recovery Time	T_{FR}	$I_F = 100 \text{ mA}$	15	ns
Max. Reverse Recovery Time	T_{RR}	$I_F = I_R = 10 \text{ mA}$, $i_{RR} = 1 \text{ mA}$, $R_L = 100 \text{ ohms}$	10	ns
Max. Forward Voltage Match	V_{F5}	$I_F = 10 \text{ mA}$	5	mV

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Mechanical Dimensions: in inches / mm

Electrical Schematic


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