

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 @ $I_R = 5 \mu A$	75	Vdc
		P_w =300 μs +/- 50μs; duty \leq 2%		
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	TJ	-	-65 to +150	°C
Max. Storage Temperature	T_{stg}	-	-65 to +200	°C

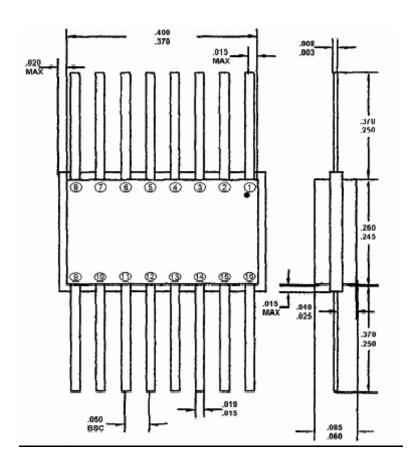
Electrical Characteristics:

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

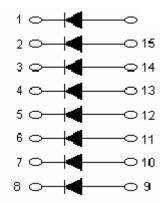
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	I_F = 100mA, Pulsed: P_w =300µs +/- 50µs; duty cycle \leq 2%	1.00	V
Max. Reverse Current	I _{R1}	@V _R = 40V	0.1	μΑ
	I_{R2}	@V _R = 20V	25	nA
Max. Capacitance (Pin to Pin)	Ст	@V _R = 0V, F=1MHz	4.0	pF
Max. Forward Recovery Time	T_{FR}	I _F = 100mA	15	ns
Max. Reverse Recovery Time	T _{RR}	$I_f = I_R = 10$ mA, $I_{RR} = 1$ mA, $I_{RL} = 100$ 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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