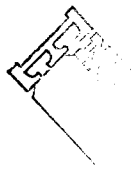




PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424



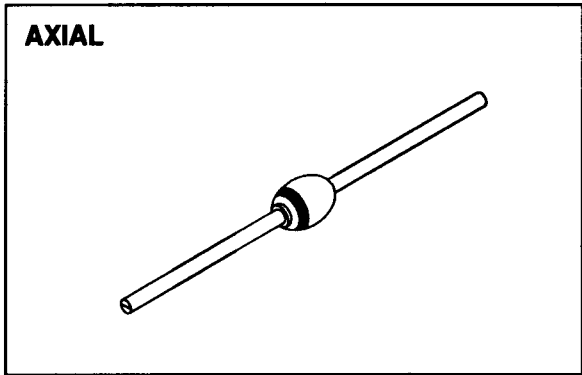
**1N5624
thru
1N5628**

Designer's Data Sheet

- FEATURES:**
- Fast Recovery: 5 μ sec maximum
 - PIV to 1000 Volts
 - Low Reverse Leakage Current
 - Hermetically Sealed
 - Single Chip Construction
 - High Surge Rating
 - Low Thermal Resistance
 - Available in surface mount versions

 - TX, TXV, and Space Level Screening available

**3 AMP
200-1000 VOLTS
5 μ sec
STANDARD RECOVERY
RECTIFIER**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	1N5624	VRRM	200
	1N5625		400
	1N5626	VRWM	600
	1N5627		800
	1N5628	VR	1000
			Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	3	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	225	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Leads, L=3/8"	R θ JL	25	°C/W

**1N5624
thru
1N5628**

PRELIMINARY



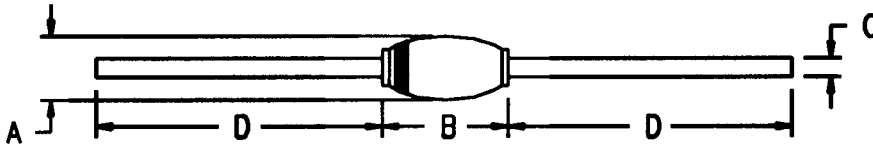
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA=25°C, 300µs Pulse)	VF	1.0	Vdc
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA= - 55°C, 300µs Pulse)	VF	1.2	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	2	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	200	µA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	40	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	5	µsec

CASE OUTLINE: AXIAL



DIMENSIONS		
DIM	MIN	MAX
A	---	.200"
B	---	.230"
C	.047"	.053"
D	1.00"	---

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

