



PRELIMINARY



90097-1
thru
90097-3

SOLID STATE DEVICES, INC

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

Designer's Data Sheet


FEATURES:

- I.A.W. DESC drawing 90097
- Fast Recovery: 5 μ sec maximum
- PIV to 600 Volts
- Low Reverse Leakage Current
- Hermetically Sealed Ministud package
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance

- TX, TXV, and Space Level Screening available

**9 AMP
200-600 VOLTS
5 μ sec
STANDARD RECOVERY
RECTIFIER**

ISOLATED MINISTUD "V"



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	200	Volts
	VRWM	400	
	VR	600	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	9	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	150	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	R θ JE	7.5	°C/W

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: R00015 A

RMD

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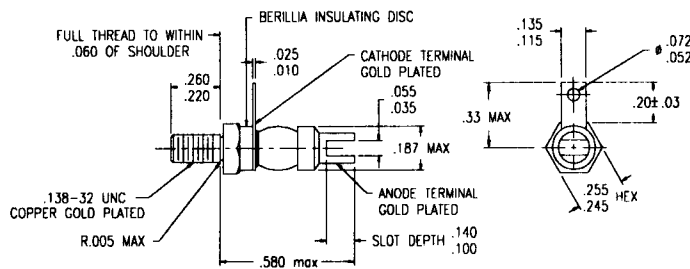
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 6 Adc, TA=25°C, 300µs Pulse) (IF = 9 Adc, TA=25°C, 300µs Pulse)	VF	1.0 1.2	Vdc
Instantaneous Forward Voltage Drop (IF = 9 Adc, TA= - 55°C, 300µs Pulse)	VF	1.4	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	10	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	300	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: ISOLATED MINISTUD "V"



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

