PRELIMINARY

SPD1192 and SPD1194

SOLID STATE DEVICES, INC

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

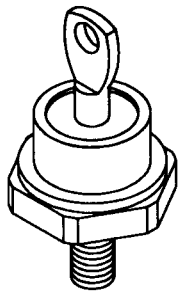
Designer's Data Sheet

35 AMPS 800 and 1000 VOLTS 5 µsec STANDARD RECOVERY RECTIFIER

FEATURES:

- Fast Recovery: 5 µsec maximum
- PIV to 1000 Volts
- Low Reverse Leakage Current
- Hermetically Sealed
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- Higher Voltage devices available
- For Reverse Polarity add suffix "R"
- TX, TXV, and Space Level Screening available

DO-5



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage **SPD1192** **SPD1194**	V_{RRM} V_{RWM} V_R	800 1000	**Volts**
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	35	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	I_{FSM}	500	**Amps**
Operating and storage temperature	**Top & Tstg**	-65 to +150	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	1.0	**°C/W**

SPD1192 and SPD1194

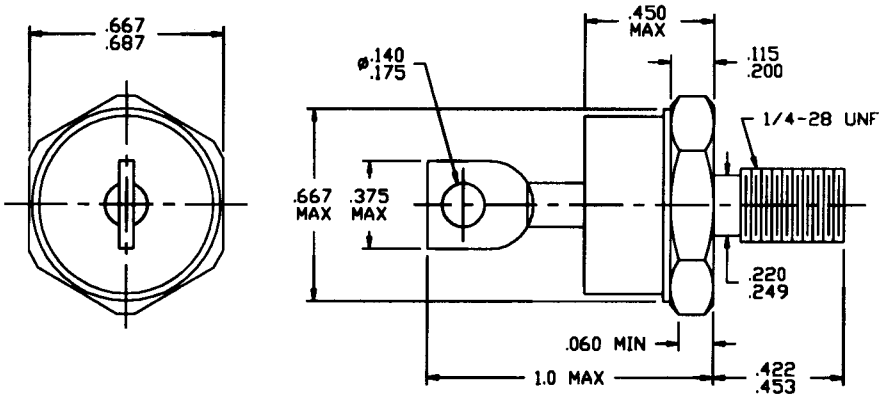
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 35 Adc, TA=25°C, 300µs Pulse)	VF	1.4	Vdc
Instantaneous Forward Voltage Drop (IF = 35 Adc, TA= - 55°C, 300µs Pulse)	VF	1.6	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	20	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	2	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	250	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	5	µsec

CASE OUTLINE: DO-5



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

