



PRELIMINARY

SOLID STATE DEVICES, INC

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

SPD1192 and SPD1194

Designer's Data Sheet

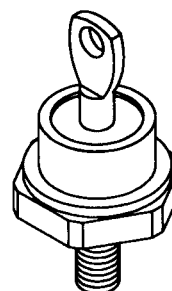
FEATURES:

- 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
- Higher Voltage devices available
- For Reverse Polarity add suffix "R"

- TX, TXV, and Space Level Screening available

35 AMPS
800 and 1000 VOLTS
5 μ sec
STANDARD RECOVERY
RECTIFIER

DO-5



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SPD1192 SPD1194	VRRM VRWM VR	800 1000	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	35	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	500	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	R θ JC	1.0	°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#: R00007 A

RMD

SPD1192 and SPD1194

PRELIMINARY



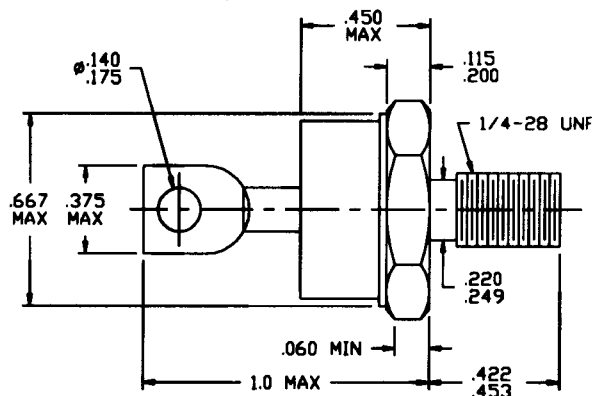
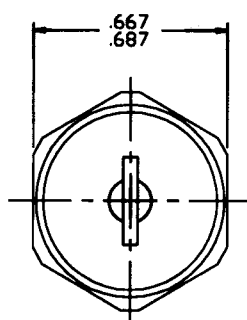
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ELECTRICAL CHARACTERISTICS

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

