
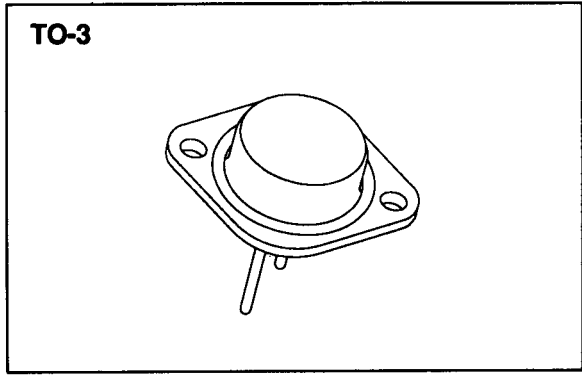


15R6CT/3

Designer's Data Sheet


**50 AMP
 150 VOLTS
 50nsec
 EPION®
 CENTERTAP RECTIFIER**

- FEATURES:**
- **EPION®** High Voltage Schottky Process
 - Minimal recovery time and leakage increase over temperature versus comparable rectifiers
 - Lower capacitance than conventional Schottkys
 - Hyper Fast Recovery: 50 nsec Maximum
 - High Surge Rating
 - Hermetically Sealed Power Package
 - Gold Eutectic Die Attach available
 - Ultrasonic Aluminum Wire Bonds
 - Higher Voltage classes available
 - TX, TXV and Space Level Screening Available



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage 15R6CT/3	VRRM VRWM VR	150	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	100	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	IFSM	400	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case, both legs tied together	RθJC	1.6 1.0	°C/W

Note 1 Per leg

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PRELIMINARY



SOLID STATE DEVICES, INC

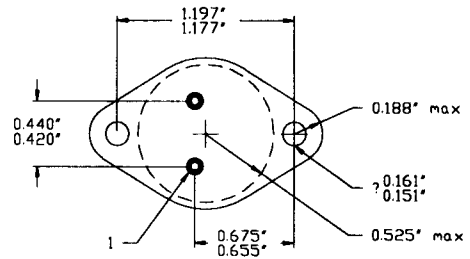
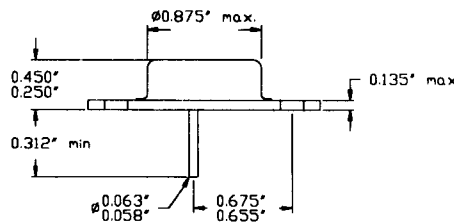
14849 Firestone Boulevard · La Mirada, CA 90638
 Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

ELECTRICAL CHARACTERISTICS (Per leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 25 Adc, TA=25°C, 300µs Pulse) note 1 (IF = 50 Adc, TA=25°C, 300µs Pulse) note 1	VF	0.83 0.90	Vdc
Instantaneous Forward Voltage Drop (IF = 25 Adc, TA= 100°C, 300µs Pulse) note 1 (IF = 25 Adc, TA= - 55°C, 300µs Pulse) note 1	VF	0.71 0.93	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	100	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	50	nsec

CASE OUTLINE: TO-3

CASE: CATHODE
 PIN 1: ANODE 1
 PIN 2: ANODE 2



TYPICAL OPERATING CURVES
 TA=25°C Unless otherwise specified

