

Designer's Data Sheet

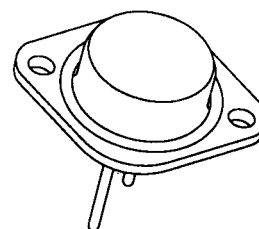
FEATURES:

- **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

15R6CT/3

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

TO-3



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

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

DATA SHEET#: RH0143 A

MED

15R6CT/3

PRELIMINARY

SSDI

SOLID STATE DEVICES, INC

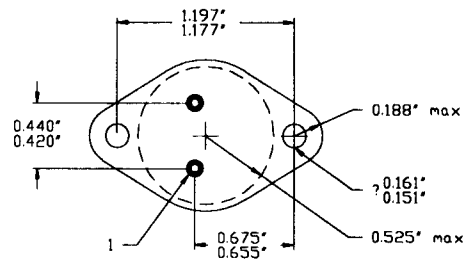
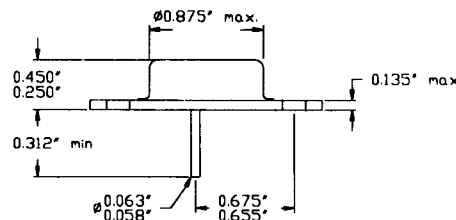
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Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

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	V _F	0.83 0.90	V _{dc}
Instantaneous Forward Voltage Drop (IF = 25 Adc, TA= 100°C, 300μs Pulse) note 1 (IF = 25 Adc, TA= - 55°C, 300μs Pulse) note 1	V _F	0.71 0.93	V _{dc}
Reverse Leakage Current (Rated VR, TA=25°C, 300μs pulse minimum)	I _R	100	μA
Reverse Leakage Current (Rated VR, TA=100°C, 300μs pulse minimum)	I _R	2	mA
Junction Capacitance (VR = 10 V _{dc} , TA=25°C, f= 1 MHz)	C _J	250	pf
Reverse Recovery Time (IF=500mA, I _R =1 A, I _{RR} =250mA, TA=25°C)	t _{rr}	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

