

Designer's Data Sheet

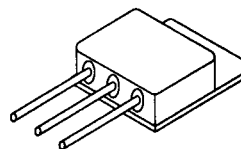
FEATURES:

- Soft Recovery Diode
- Ultrafast Recovery: 80 nsec Maximum
- Faster recovery versions available
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Package
- Gold Eutectic Die Attach available
- Ultrasonic Aluminum Wire Bonds
- Ceramic Seals for improved hermeticity available
- Common Anode and Doubler versions available
 - Common Anode: SDR966-969CAN&P
 - Doubler: SDR966-969DN&P
- TX, TXV and Space Level Screening Available

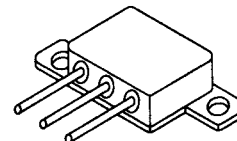
**SDR966CTN&P
thru
SDR969CTN&P**

**60 AMP
600-900 VOLTS
80 nsec
ULTRA FAST
CENTERTAP RECTIFIER**

TO-258



TO-259



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR966CTN&P SDR967CTN&P SDR968CTN&P SDR969CTN&P	VRRM VRWM VR	600 700 800 900	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)note 1	IO	60	Amps
Peak Surge Current (per leg) (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	500*	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case, note 1	RθJC	1.3 0.7	°C/W

note 1 Both legs tied together

* Available with higher surge rating

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

DATA SHEET#: RU0077 A

MED

SDR966CTN&P thru SDR969CTN&P

PRELIMINARY



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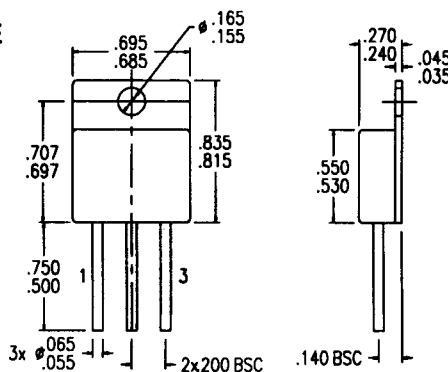
ELECTRICAL CHARACTERISTICS (Per leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 15 Adc, TA=25°C, 300ms Pulse) (IF = 30 Adc, TA=25°C, 300ms Pulse)	VF	1.20 1.35	Vdc
Instantaneous Forward Voltage Drop (IF = 15 Adc, TA=100°C, 300ms Pulse) (IF = 15 Adc, TA= - 55°C, 300ms Pulse)	VF	1.1 1.3	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300ms pulse minimum)	IR	100	μA
Reverse Leakage Current (Rated VR, TA=100°C, 300ms pulse minimum)	IR	10	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	100	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	80	nsec

CASE OUTLINE: TO-258

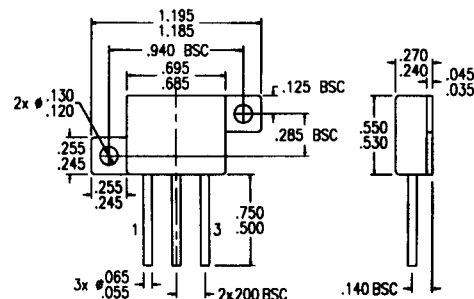
PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2

For Common
Anode and
Doubler version
Pin Outs
contact the
factory



CASE OUTLINE: TO-259

PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

