

**SDR627G
thru
SDR628G**

Designer's Data Sheet

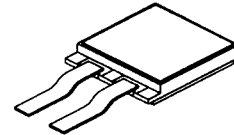
FEATURES:

- Ultrafast Recovery: 60 nsec Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Surface Mount Package
- Gold Eutectic Die Attach available
- Ultrasonic Aluminum Wire Bonds

- TX, TXV and Space Level Screening Available

**20 AMPS
700-800 VOLTS
60 nsec
ULTRA FAST
RECTIFIER**

CERPACK



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR627G SDR628G	VRRM VRWM VR	700 800	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) note 1	IO	20	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	IFSM	200	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.3	°C/W

note 1 Both legs tied together

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

DATA SHEET#: RU0085 A

MED

SDR627G thru SDR628G

PRELIMINARY



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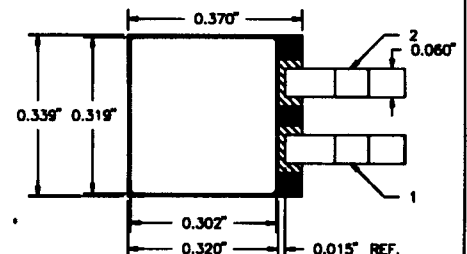
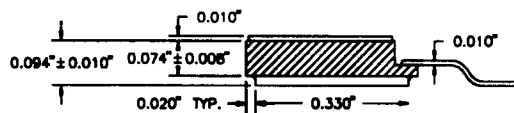
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA=25°C, 300ms Pulse) (IF = 20 Adc, TA=25°C, 300ms Pulse)	VF	1.25 1.50	Vdc
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= 100°C, 300ms Pulse) (IF = 10 Adc, TA=-55°C, 300ms Pulse)	VF	1.17 1.35	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300ms pulse minimum)	IR	50	μA
Reverse Leakage Current (Rated VR, TA=100°C, 300ms pulse minimum)	IR	5	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	70	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	60	nsec

CASE OUTLINE: CERPACK

PIN OUT:

PIN 1: ANODE
PIN 2: ANODE
BOTTOM: CATHODE



TYPICAL OPERATING CURVES TA=25°C Unless otherwise specified

