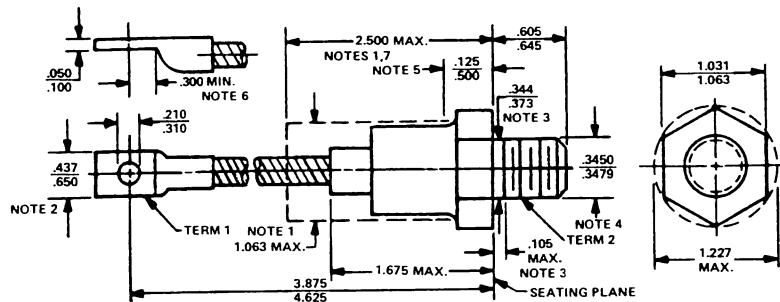


Silicon Power Rectifier

D08



NOTES:

1. The device with exception of the hexagon, thread and flexible lead extension lies within the cylinder defined by Dim. 1.063 Max. and length 2.500 Max.
2. Angular orientation of terminal with respect to hexagonal portion is undefined. Square or radius on end of terminal is optional.
3. Length of incomplete or undercut threads of Dim. .344 Min. and .373 Max.
4. Pitch diameter of 3/8-24 UNF-2A (coated) threads (ASA B1.1-1960).
5. A chamfer (or undercut) on one or both ends of the hexagonal portion is optional.
6. Minimum flat.
7. Seated height with lead bent at right angle.

(D08)

Standard polarity: Stud is Cathode
Reverse polarity: Stud is Anode

Additional JEDEC Numbers					Peak Reverse Voltage
1N3288	1N411B	1N1396	1N2426	1N3139	50V
	1N412B	1N1397	1N2427	1N3140	100V
		1N1398	1N2428	1N3141	150V
1N3289	1N413B	1N1399	1N2429	1N3142	200V
			1N2430		250V
1N3290		1N1400	1N2431		300V
			1N2432		350V
1N3291		1N1401	1N2433	1N3973	400V
1N3292		1N1402	1N2434		500V
1N3293		1N1403	1N2435	1N3974	600V
1N3294				1N3975	800V
1N3295					1000V
1N3296					1200V
1N3297					1400V

For Reverse Polarity, add R to the part number

- 1600 Amps Surge Rating
- Glass to metal seal construction
- VRRM to 1400V

Electrical Characteristics

Average forward current	IF(AV) 100 Amps	TC = 144°C, Half Sine Wave, RθJC = 0.4°C/W
Maximum surge current	IFSM 1600 Amps	8.3ms, half sine, TJ = 200°C
Max I ² t for fusing	I ² t 10700 A ² s	
Max peak forward voltage	VFM 1.20 Volts	IFM = 200A: TJ = 25°C*
Max peak reverse current	IRM 50 μA	VRRM, TJ = 25°C
Max peak reverse current	IRM 5 mA	VRRM, TJ = 150°C
Max Recommended Operating Frequency	7.5kHz	

*Pulse test: Pulse width 300 μsec. Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	TSTG	-65°C to 200°C
Operating junction temp range	TJ	-65°C to 200°C
Maximum thermal resistance	RθJC	0.4°C/W Junction to Case
Mounting torque		80-100 inch pounds
Weight		2.75 ounces (78 grams) typical



SOLID STATE INC.

46 FARRAND STREET
BLOOMFIELD, NEW JERSEY 07003

www.solidstateinc.com

Figure 1
Typical Forward Characteristics

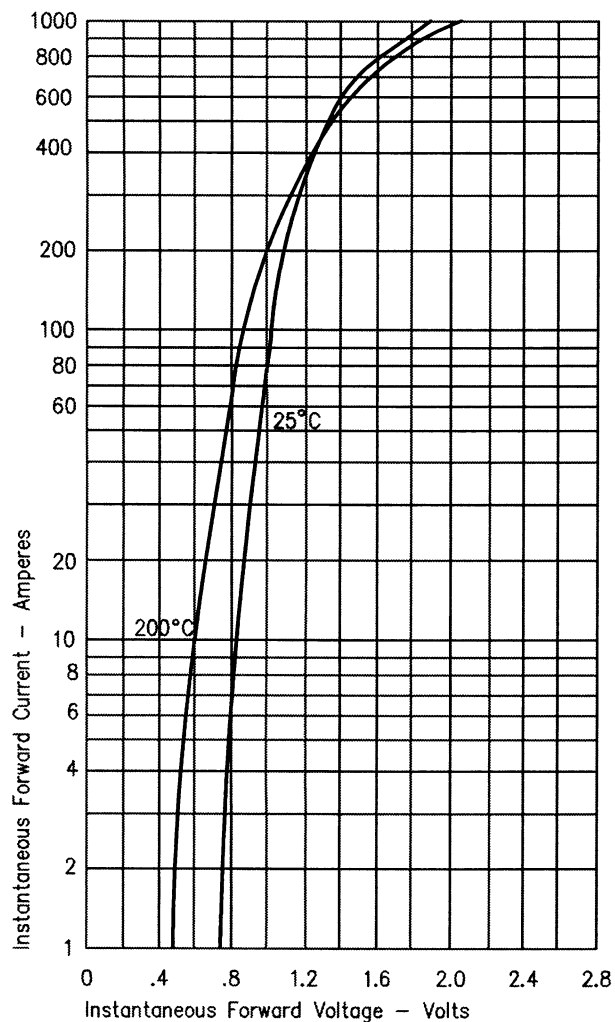


Figure 2
Typical Reverse Characteristics

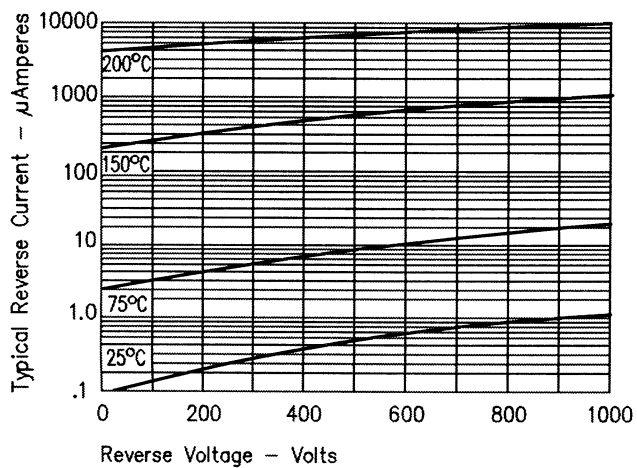


Figure 3
Forward Current Derating

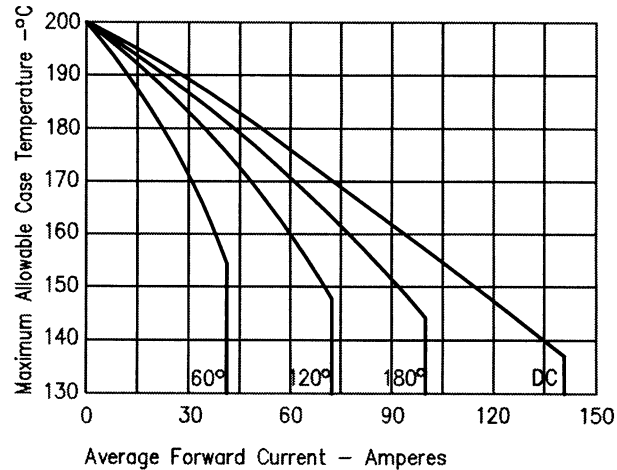


Figure 5
Transient Thermal Impedance

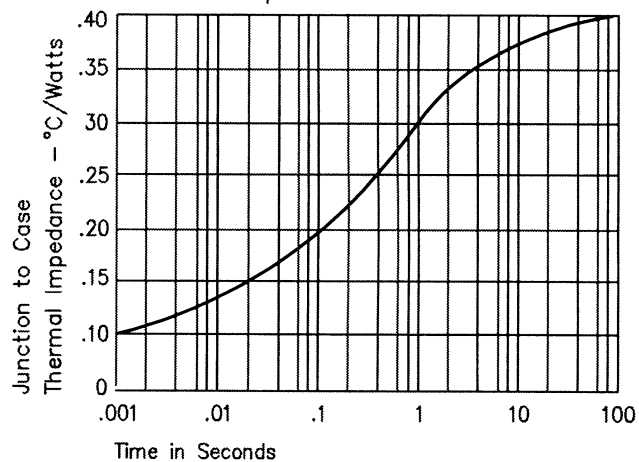


Figure 7
Maximum Nonrepetitive Surge Current

