



# SOLID STATE INC.

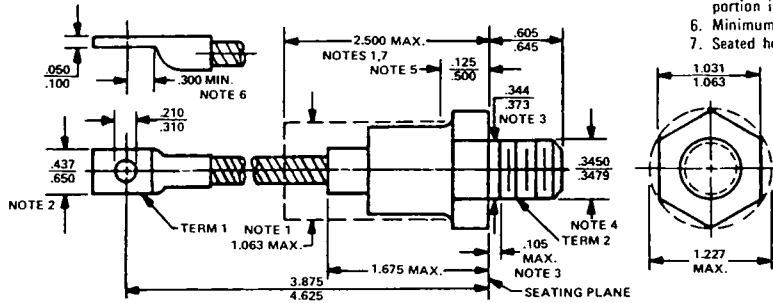
46 FARRAND STREET  
BLOOMFIELD, NEW JERSEY 07003

www.solidstateinc.com

**DO8**

### 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.



Reverse polarity: Stud is Anode

JEDEC Numbers			Peak Reverse Voltage
1N2436			50V
1N2437	1N3288A	1N4587	100V
1N2438			150V
1N2439	1N3289A	1N4588	200V
1N2440			250V
1N2441	1N3290A	1N4589	300V
1N2442			350V
1N2443	1N3291A	1N4590	400V
1N2444	1N3292A	1N4591	500V
1N2445	1N3293A	1N4592	600V
	1N3294A	1N4593	800V
	1N3295A	1N4594	1000V
	1N3296A	1N4595	1200V
	1N3297A	1N4596	1400V

add R suffix for Reverse Polarity

## DO205AA (D08)

- Soft recovery
- 2500 Amps Surge Rating
- Glass to metal seal construction

### Electrical Characteristics

Average forward current	IF(AV) 150 Amps	TC = 148°C, Half Sine Wave, RθJC = 0.35°C/W
Maximum surge current	IFSM 2500 Amps	8.3ms, half sine, TJ = 200°C
Max I²t for fusing	I²t 26000 A²s	
Max peak forward voltage	VFM 1.1 Volts	IFM = 200A; TJ = 25°C*
Max peak reverse current	IRM 50 µA	VRRM, TJ = 25°C
Max peak reverse current	IRM 5.0 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	0.35°C/W Junction to Case
Mounting torque		80-100 inch pounds
Weight		2.75 ounces (78 grams) typical

Figure 1  
Typical Forward Characteristics

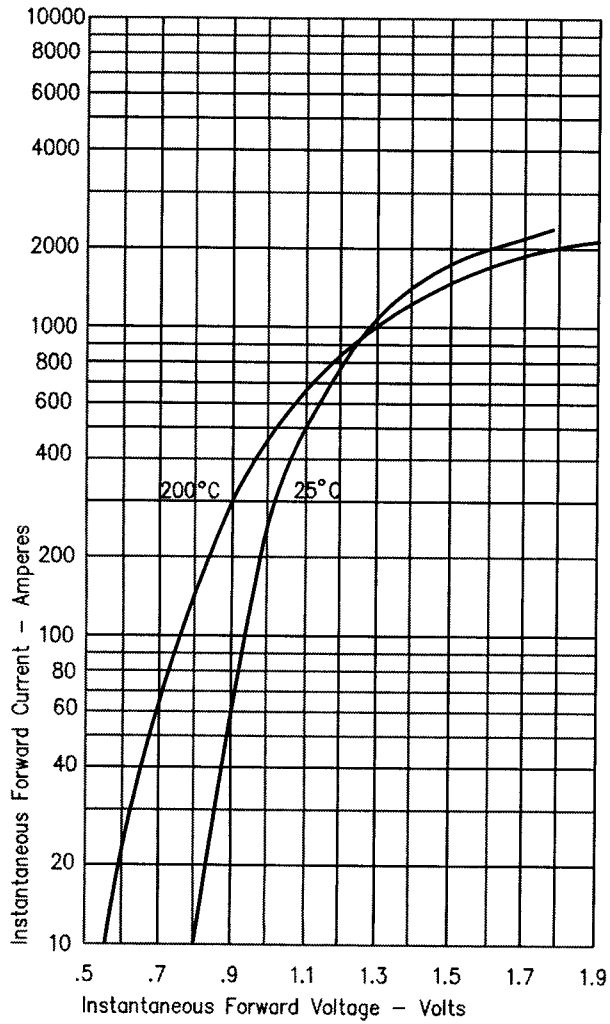


Figure 2  
Typical Reverse Characteristics

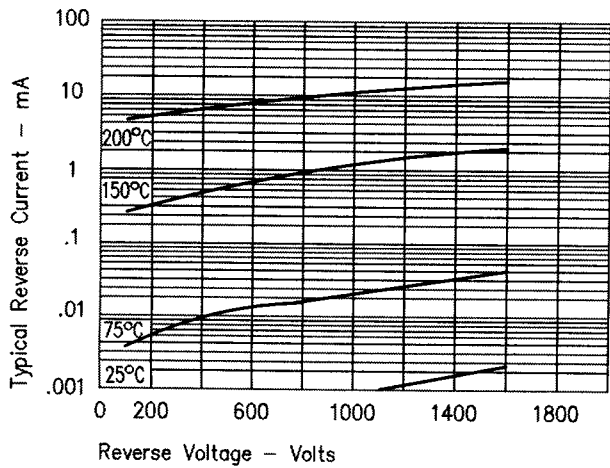


Figure 3  
Forward Current Derating

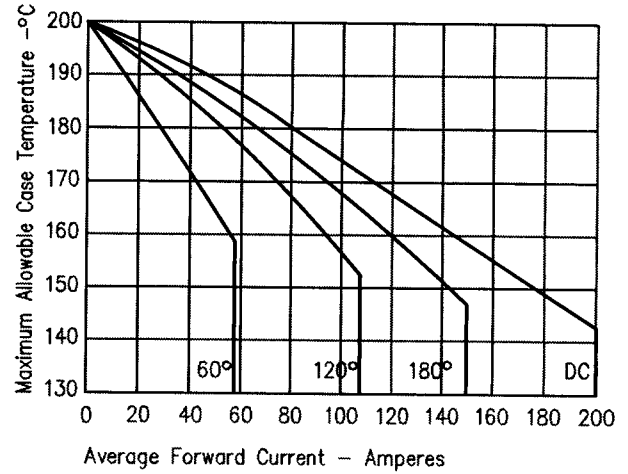


Figure 4  
Maximum Forward Power Dissipation

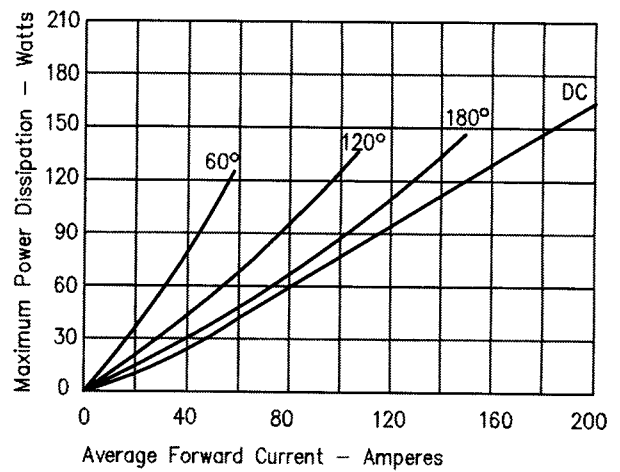


Figure 5  
Transient Thermal Impedance

