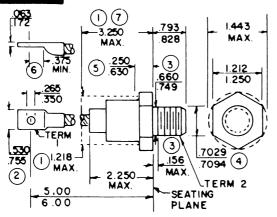
# Silicon Power Rectifier

## **DO9**



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

#### DO9 NOTES:

- 1. The device with exception of the hexagon, thread, and flexible lead extension lies with-in the cylinder defined
- by 1.218 and length 3.25. Angular orientation of terminal with respect to terminal with respect to hexagonal portion is undefined. Square or radius on end of terminal is optional. Length of incomplete or undercut threads. Pitch diameter of 3/4-16
- UNF-2A (coated) threads (ASA B1.1-1960).
- 5. A chamfer (or undercut) on one or both ends of the hexagonal portion is optional. Minimum flat.
- Seated height with lead bent at right angle.

D0 - 9

	JEDEC Types					Peak Reverse Voltage	
1N4044 1N4045 1N4046 1N4047 1N4048 1N4049 1N4050 1N4051 1N4051 1N4053 1N4053 1N4054	1N1660 1N1661 1N1662 1N1663 1N1664 1N1665 1N1666	1N1670 1N1671 1N1672 1N1673 1N1674 1N1675 1N1676	1N2054 1N2055 1N2055 1N2055 1N2057 1N2058 1N2059 1N2060 1N2061 1N2062 1N2063 1N2064 1N2065 1N2066 1N2066	1N3260 1N3261 1N3262 1N3263 1N3264 1N3265 1N3266 1N3267 1N3268 1N3270 1N3271	1N3735 1N3736 1N3737 1N3738 1N3739 1N3740 1N3741	50V 100V 150V 200V 250V 350V 450V 450V 500V 600V 700V 800V 900V	
1N4056	d R suffix	4	1N2068	1N3272 1N3273 1N3274	1N3742 1N3743 1N3744	1000V 1200V 1400V	

- Glass to metal seal construction
- High surge current capability
- Soft recovery
- VRRM 50 to 1400 Volts

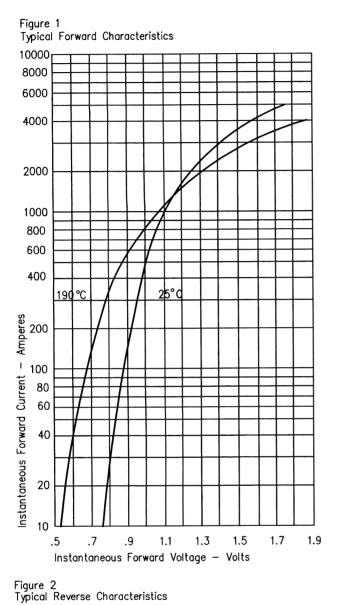
### **Electrical Characteristics**

 $^{T}C = 120^{\circ}C$ , square wave,  $^{R}\theta JC = 0.18^{\circ}C/W$ Average forward current IF(AV) 275 Amps 5000 Amps I FSM 8.3ms, half sine,  $TJ = 190^{\circ} C$ Maximum surge current Max 12 t for fusing 12 t 104125 A2s 8.3ms V<sub>FM</sub>  $^{1}$ FM = 300A:  $^{T}$ J = 25°C\* Max peak forward voltage 1.3 Volts  $V_{RRM,TJ} = 150^{\circ}C$ Max peak reverse current IRM 10 mA IRM  $V_{RRM}T_{J} = 25^{\circ}C$ 75 uA Max reverse current \*Pulse test: Pulse width 300 µsec. Duty cycle 2%

### Thermal and Mechanical Characteristics

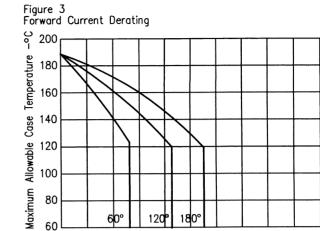
TSTG -65°C to 190°C Storage temperature range ΤJ -65°C to 190°C Operating junction temp range Maximum thermal resistance ReJC 0.18°C/W junction to case R<sub>OCS</sub> Typical Thermal Resistance (greased) .08°C/W case to sink Mounting torque 300-325 inch pounds Weight 8.5 ounces (240 grams) typical





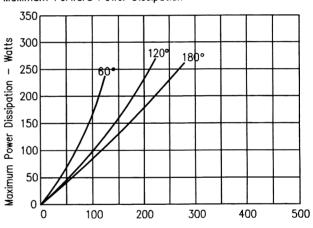
Typical Reverse Current - mA 200°( .1 .01 .001 

Reverse Voltage - Volts



Average Forward Current - Amperes

Figure 4 Maximum Forward Power Dissipation



Average Forward Current - Amperes