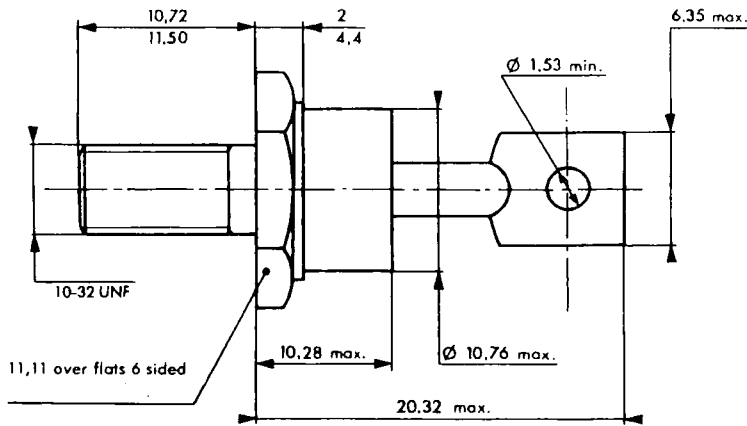


# Silicon Power Rectifier



Marking : Cathode connected to case : type number  
 Anode connected to case : type number + suffix R  
 Weight : 5.1g  
 Recommended torque value : 180cm. N  
 Maximum torque value : 220cm. N

D04

		JEDEC Numbers	Peak Reverse Voltage		
1N1064	1N1341, A,B	1N1581	1N1612,A	1N2228,A	1N2491 50V
1N1065	1N1342, A,B	1N1582	1N1613,A		1N2492 100V
1N1066	1N1343, A,B				150V
1N1067	1N1344, A,B	1N1583	1N1614,A	1N2230,A	1N2493 200V
1N1068	1N1345, A,B	1N1584		1N2232,A	1N2494 300V
1N1069	1N1346, A,B	1N1585	1N1615,A	1N2234,A	1N2495 400V
	1N1347, A,B	1N1586		1N2236,A	1N2496 500V
	1N1348, A,B	1N1587	1N1616,A	1N2238,A	1N2497 600V
				1N2240,A	800V
				1N2242,A	1000V
				1N2244,A	1200V

For 1N types add an R suffix for Reverse Polarity

- Low Forward Voltage
- 200A Surge Rating
- Glass to metal seal construction
- $V_{RRM}$  to 1200V

## Electrical Characteristics

Average forward current	$I_F(AV)$ 16 Amps	$T_C = 153^\circ C$ , half sine wave, $R_{\theta JC} = 2.5^\circ C/W$
Maximum surge current	$I_{FSM}$ 200 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 165 $A^2 s$	
Max peak forward voltage	$V_{FM}$ 1.3 Volts	$I_{FM} = 30A; T_J = 25^\circ C^*$
Max peak reverse current	$I_{RM}$ 10 $\mu A$	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	$I_{RM}$ 1.0 mA	$V_{RRM}, T_J = 150^\circ C$
Max Recommended Operating Frequency	10kHz	

\*Pulse test: Pulse width 300  $\mu sec$ . Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range	$T_{STG}$	$-65^\circ C$ to $200^\circ C$
Operating junction temp range	$T_J$	$-65^\circ C$ to $200^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$2.5^\circ C/W$ Junction to Case
Mounting torque		25-30 inch pounds
Weight		.16 ounces (5.0 grams) typical



**SOLID STATE INC.**

46 FARRAND STREET  
 BLOOMFIELD, NEW JERSEY 07003

www.solidstateinc.com

Figure 1  
Typical Forward Characteristics

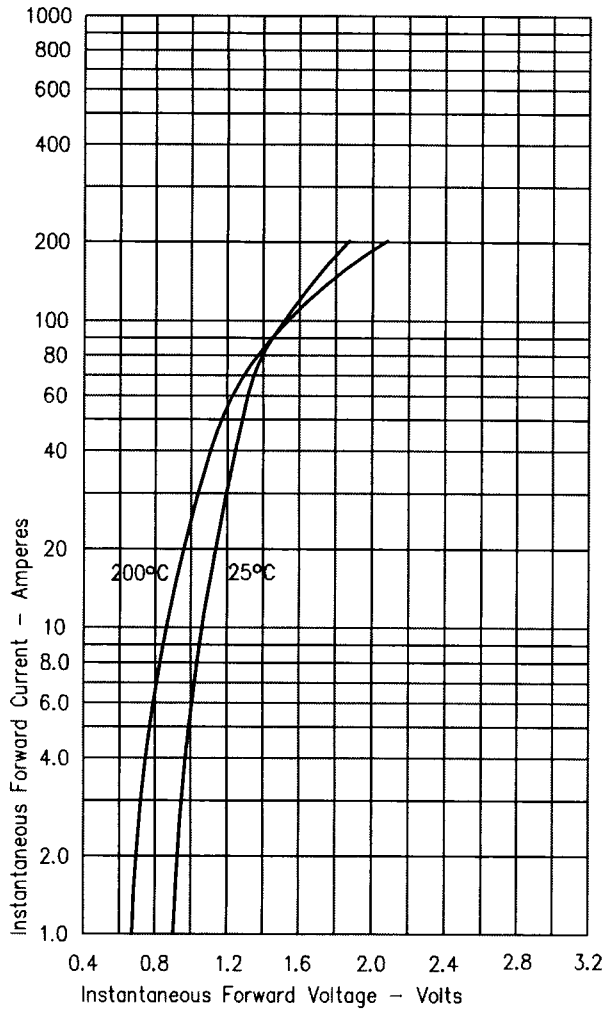


Figure 2  
Typical Reverse Characteristics

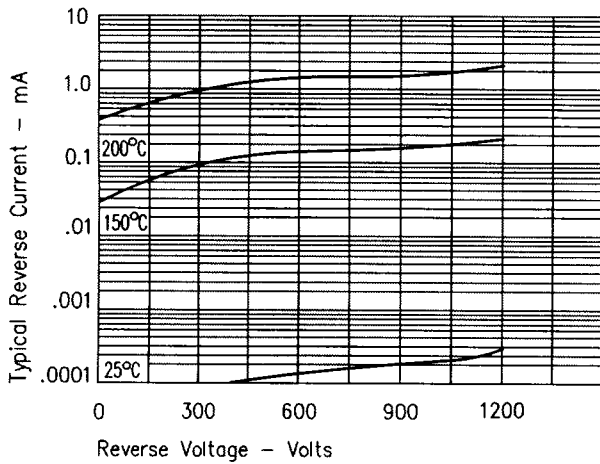


Figure 3  
Forward Current Derating

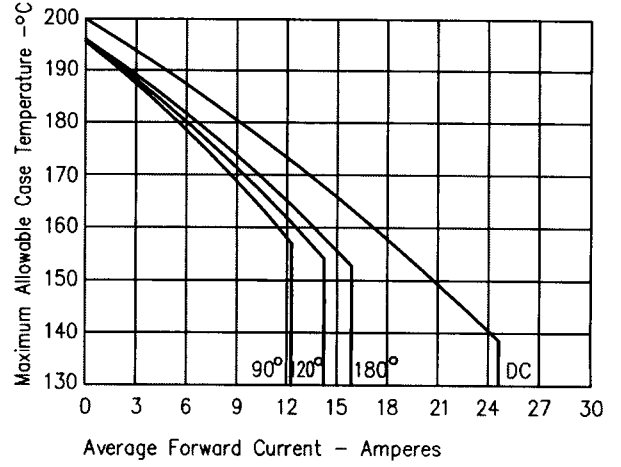


Figure 4  
Maximum Forward Power Dissipation

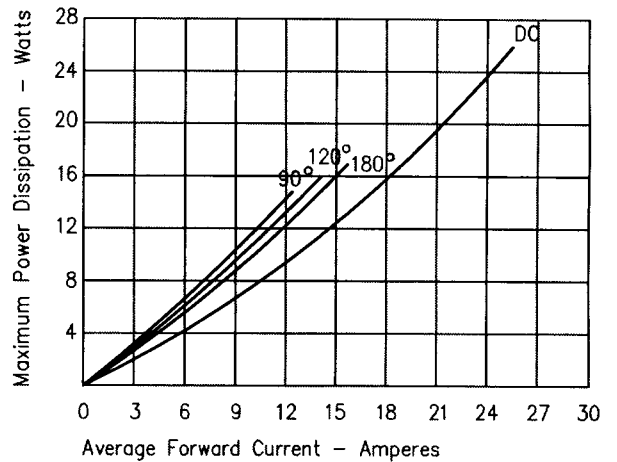


Figure 5  
Transient Thermal Impedance

