

D05

JEDEC Numbers	Peak Reverse Voltage
SEE PAGE 2 FOR FULL LIST OF JEDEC NUMBERS	200V 400V 600V 800V 1000V 1200V

- 800A surge rating
- Glass to metal seal construction
- $V_{RRM}$  to 1200V

Electrical Characteristics		
Average forward current	$I_F(AV)$ 40 Amps	$T_C = 146^\circ C$ , half sine wave, $R_{\theta JC} = 1.25^\circ C/W$
Maximum surge current	$I_{FSM}$ 800 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 2600 $A^2 s$	
Max peak forward voltage	$V_{FM}$ 1.19 Volts	$I_{FM} = 90A: T_J = 25^\circ C^*$
Max peak reverse current	$I_{RM}$ 10 $\mu A$	$V_{RRM, T_J} = 25^\circ C$
Max peak reverse current	$I_{RM}$ 2.0 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	$R_{\theta JC}$	1.25 $^\circ C/W$ Junction to Case
Typical thermal resistance	$R_{\theta JC}$	1.1 $^\circ C/W$ Junction to Case
Mounting torque		25 – 30 inch pounds
Weight		.5 ounces (14 grams) typical



Figure 1  
Typical Forward Characteristics

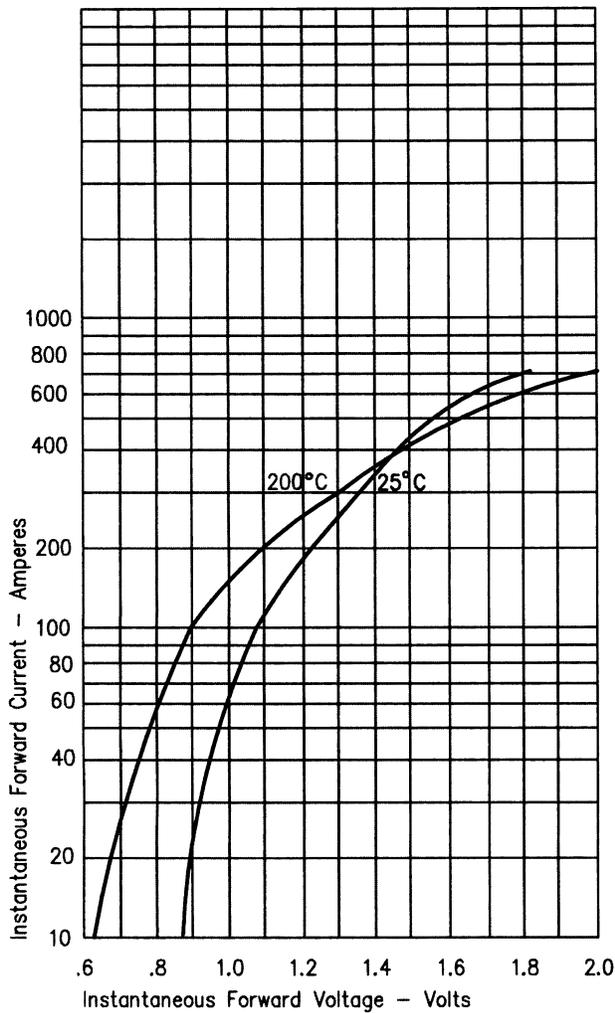


Figure 2  
Typical Reverse Characteristics

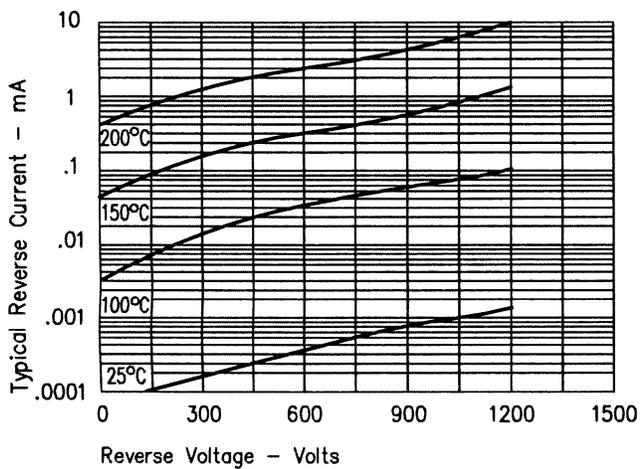


Figure 3  
Forward Current Derating

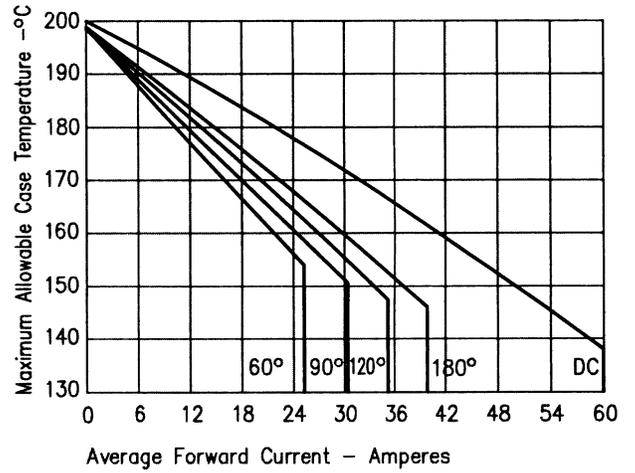


Figure 4  
Maximum Forward Power Dissipation

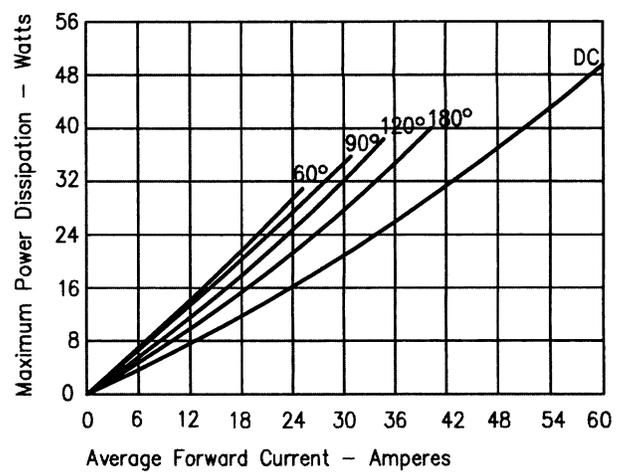


Figure 5  
Transient Thermal Impedance

