



**MAXIMUM RATINGS**

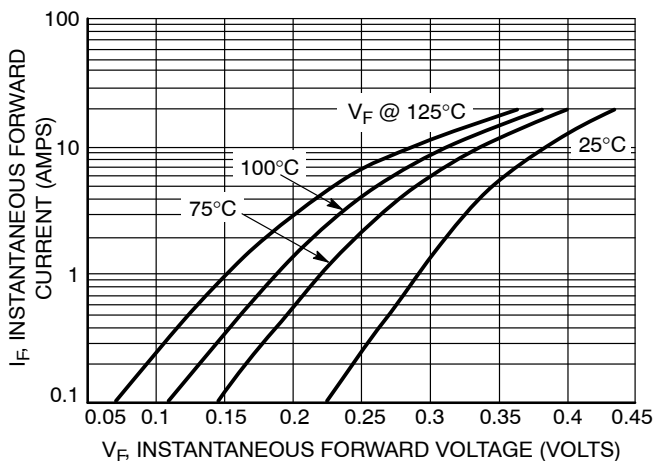
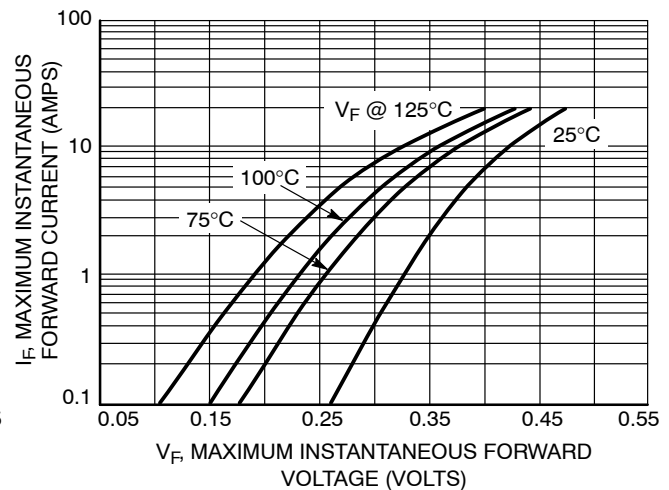
Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	10	V
Average Rectified Forward Current (At Rated $V_R$ , $T_L = 110^\circ\text{C}$ )	$I_O$	2.0	A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	$I_{FSM}$	160	A
Storage/Operating Case Temperature Operating Junction Temperature	$T_{stg}$ , $T_C$ $T_J$	-55 to +125	$^\circ\text{C}$
Voltage Rate of Change (Rated $V_R$ , $T_J = 25^\circ\text{C}$ )	dv/dt	10,000	V/ $\mu\text{s}$

**THERMAL CHARACTERISTICS**

Characteristic	Symbol	Min Pad	1 Inch Pad	Unit
Thermal Resistance, Junction-to-Lead Thermal Resistance, Junction-to-Ambient	$R_{\theta JL}$ $R_{\theta JA}$	22 150	15 81	$^\circ\text{C}/\text{W}$

**ELECTRICAL CHARACTERISTICS**

Maximum Instantaneous Forward Voltage (Note 1)  ( $I_F = 0.1$ A) ( $I_F = 1.0$ A) ( $I_F = 2.0$ A)	$V_F$	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	V
		0.260	0.15	
		0.325	0.23	
Maximum Instantaneous Reverse Current  ( $V_R = 5.0$ V) ( $V_R = 10$ V)	$I_R$	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	mA
		0.25	40	
		0.70	60	


**Figure 1. Typical Forward Voltage**

**Figure 2. Maximum Forward Voltage**

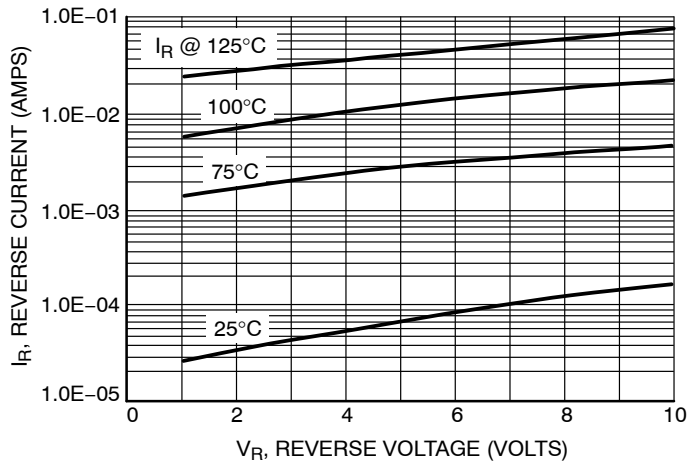


Figure 3. Typical Reverse Current

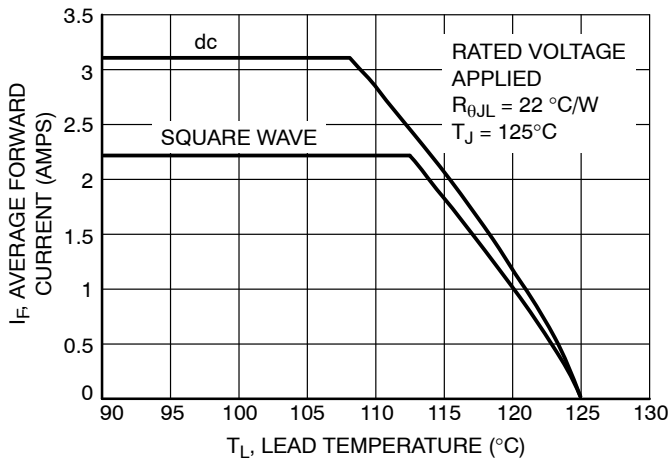


Figure 4. Current Derating - Junction to Lead

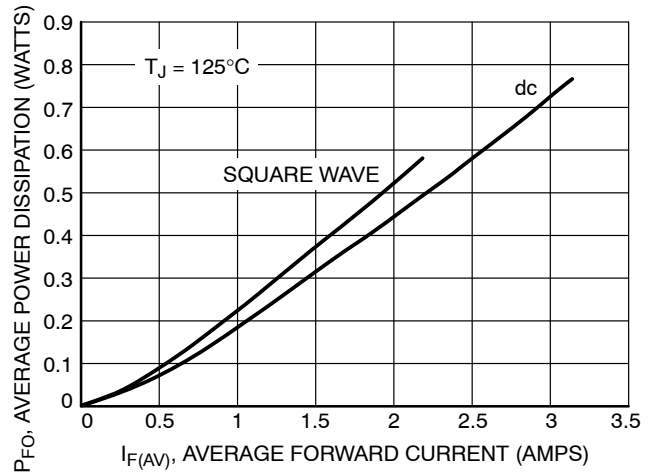


Figure 5. Forward Power Dissipation

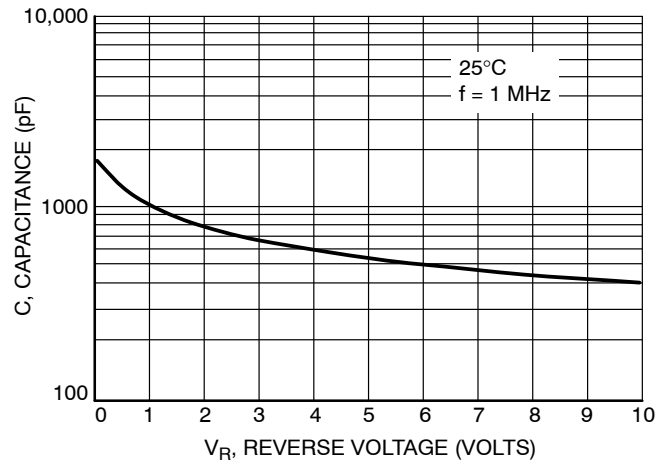


Figure 6. Typical Capacitance

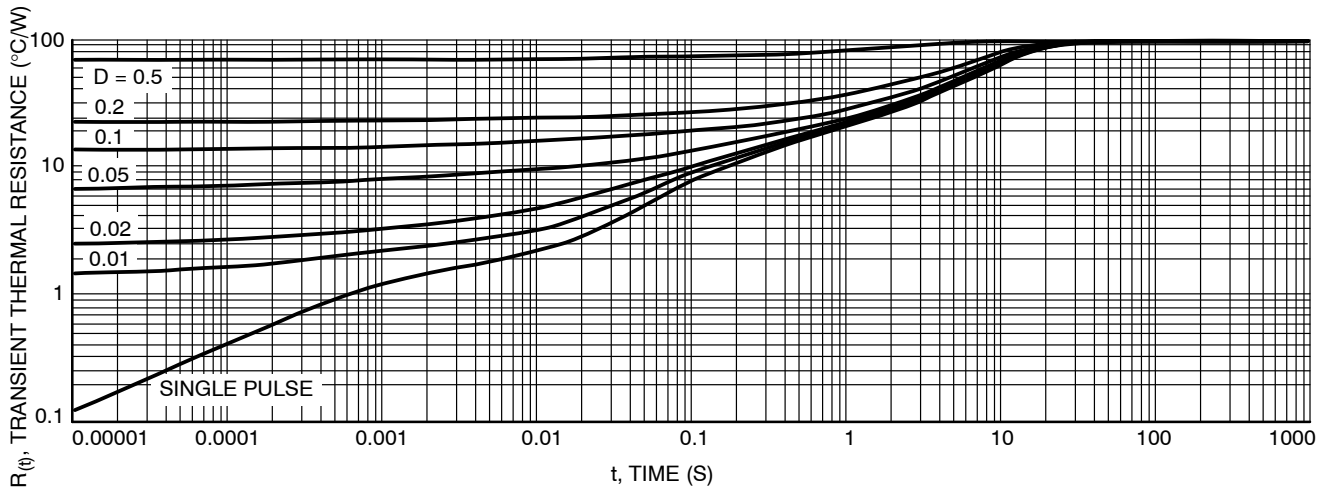


Figure 7. Thermal Response, Junction to Ambient (min pad)

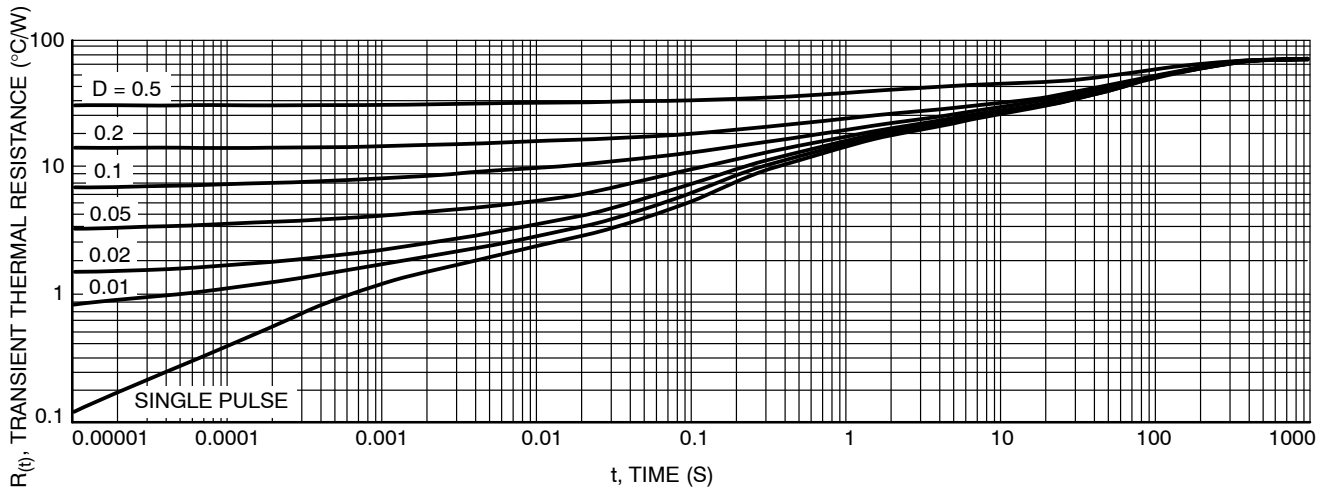


Figure 8. Thermal Response, Junction to Ambient (1 inch pad)