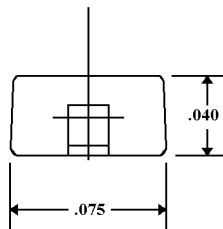
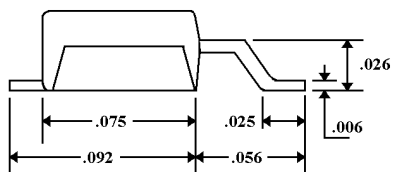
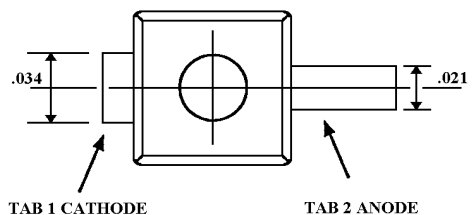


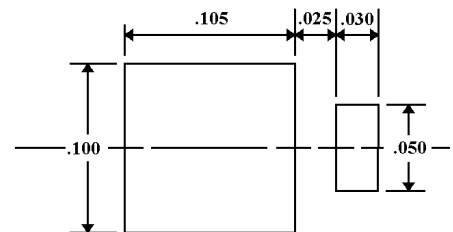
Parameter	Symbol	Conditions	T _J = 25°C	T _J = 85°C	Units
Maximum Forward Voltage (Note 1) See Figure 2	V _F	I _F = 0.1 A I _F = 1.0 A I _F = 3.0 A	0.34 0.45 0.65	0.25 0.415 0.67	V
Maximum Instantaneous Reverse Current (Note 1)	I _R	V _R = 20 V V _R = 10 V	0.40 0.10	25 18	mA

Note: 1 Short duration test pulse used to minimize self – heating effect.

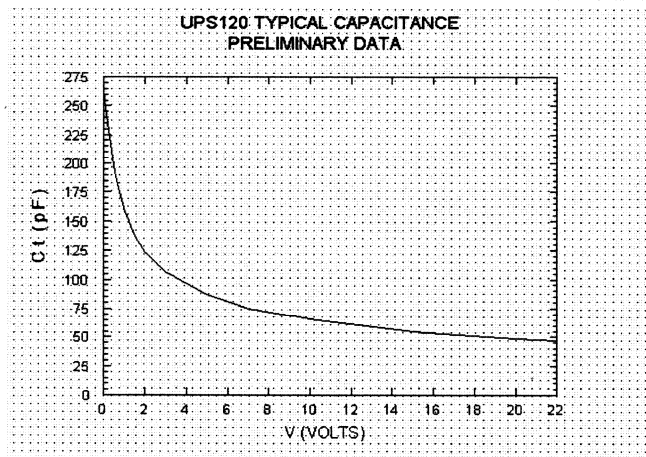
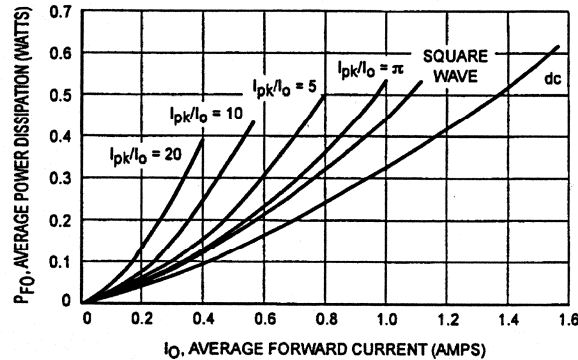
PACKAGE & MOUNTING PAD DIMENSIONS



DO-216 Package (All dimensions +/- .005 inches)



MOUNTING PAD in inches

CHARTS AND GRAPHS

FIGURE 1

FIGURE 2

Forward Power Dissipation

* Reverse power dissipation and the possibility of thermal runaway must be considered when operating this device under any reverse voltage conditions. Calculations of T_J therefore must include forward and reverse power effects. The allowable operating T_J may be calculated from the equation:

$$T_J = T_{J \max} = r(t)(P_f + P_r) \text{ where}$$

$r(t)$ = thermal impedance under given conditions.
 P_f = forward power dissipation, and
 P_r = reverse power dissipation

This graph displays the derated allowable T_J due to reverse bias under DC conditions only and is calculated as $T_J = T_{J \max} - r(t) P_r$, Where $r(t) = R_{thja}$. For other power applications further calculations must be performed.

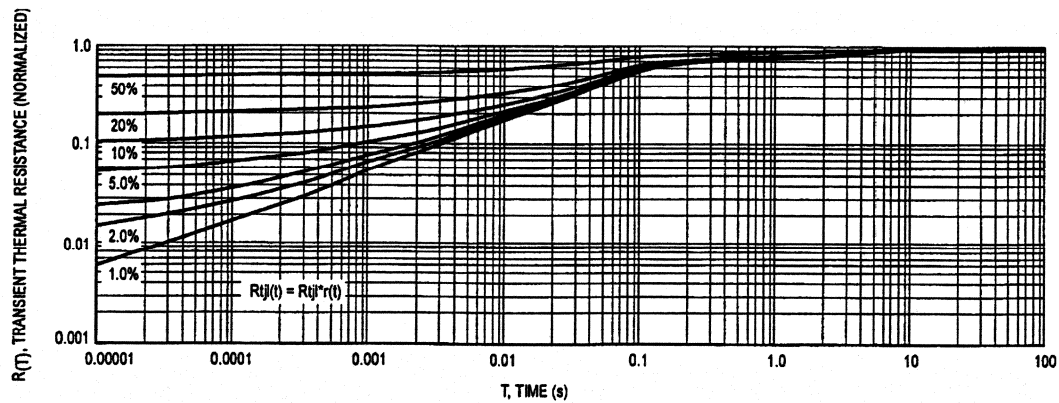


FIGURE 3 – Thermal Impedance Junction to Case (bottom)

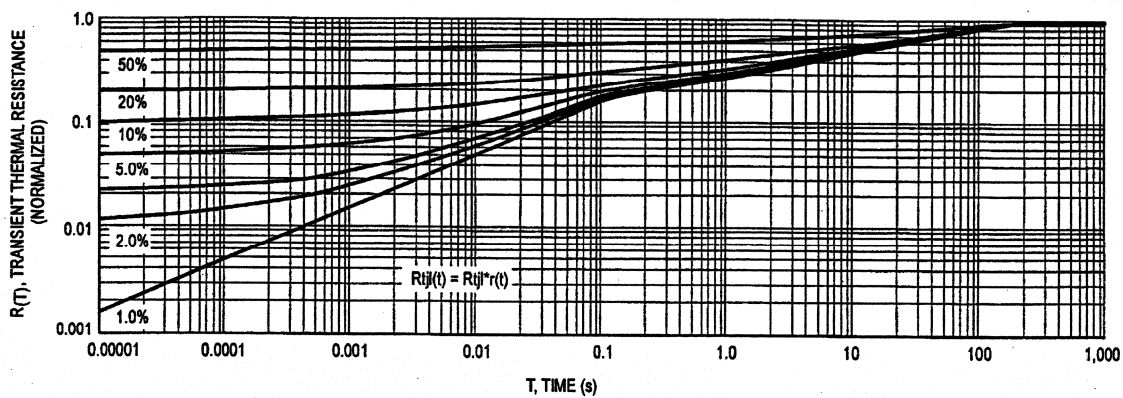


FIGURE 4 – Thermal Impedance Junction to Ambient