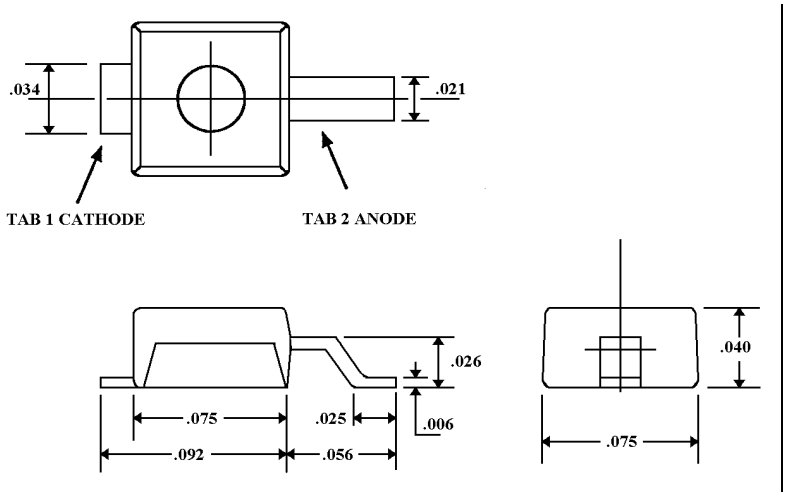
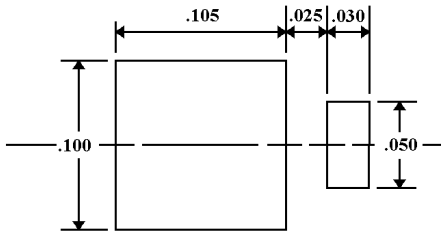
Parameter	Symbol	Conditions	T_J = 25ºC	T_J =85ºC	Units
Maximum Forward Voltage (Note 1) See Figure 2	V_F	I_F = 0.1 A I_F = 1.0 A I_F = 3.0 A	0.34 0.45 0.65	0.25 0.415 0.67	V
Maximum Instantaneous Reverse Current (Note 1)	I_R	V_R = 20 V V_R = 10 V	0.40 0.10	25 18	mA

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

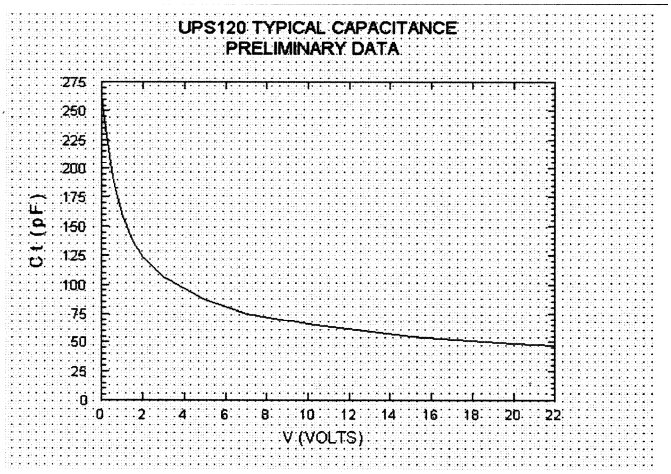


FIGURE 1

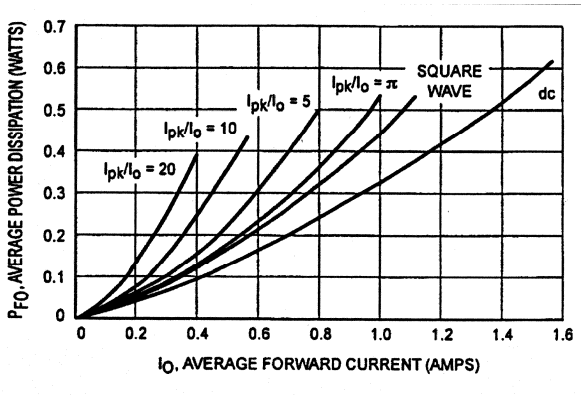


FIGURE 2
Forward Power Dissipation

* 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:

$T_J = T_{J\,max} = r(t)(Pf+Pr)$ where
r(t) = thermal impedance under given conditions.
Pf = forward power dissipation, and
Pr = 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) Pr, Where r(t)=Rthja. For other power applications further calculations must be performed.

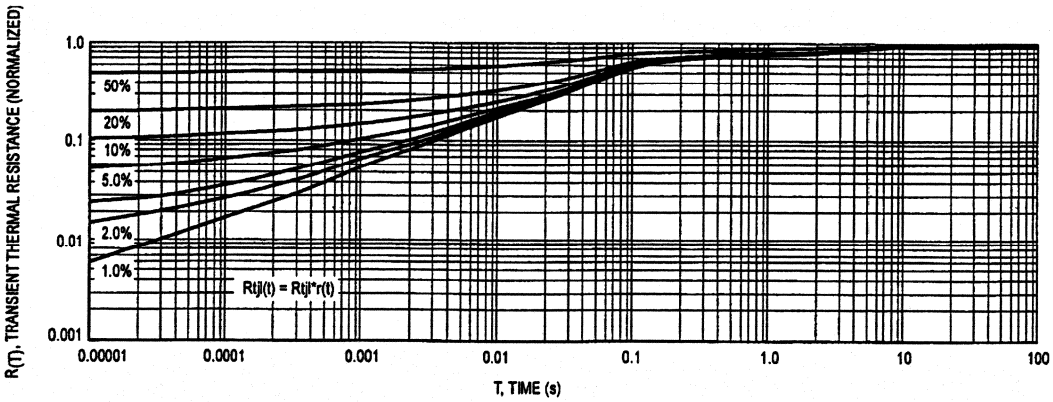


FIGURE 3 – Thermal Impedance Junction to Case (bottom)

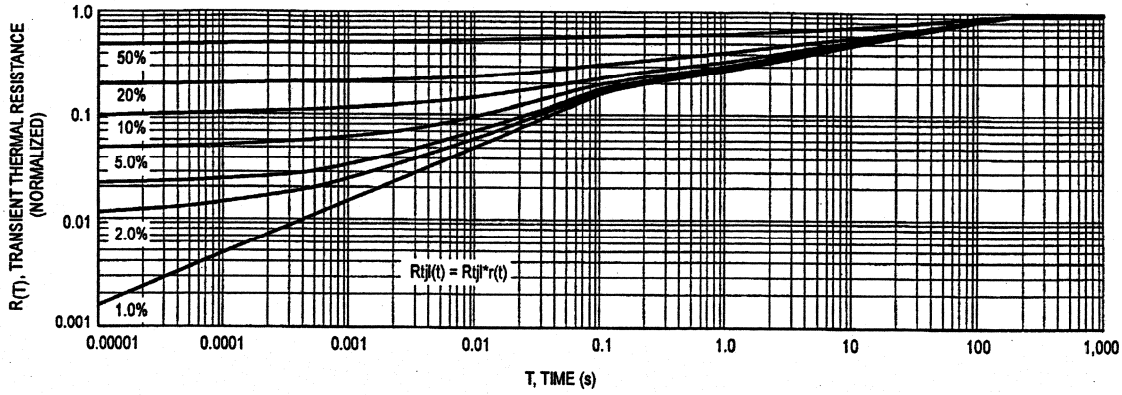


FIGURE 4 – Thermal Impedance Junction to Ambient