

Absolute Maximum Ratings

5082-2800 Series

P. Power Dissipation at $T_A = 25^\circ\text{C}$ 250 mW (Note 1)

Derate 1.43 mW/ $^\circ\text{C}$ for
 $T_A = 25^\circ\text{C}$ to 200°C

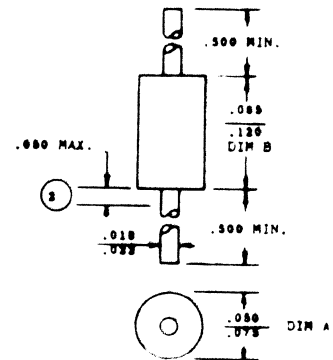
T_A Operating Temp. Range -65 to $+200^\circ\text{C}$

T_{stg} Storage Temp. Range -65 to $+200^\circ\text{C}$

Note 1. As measured using an infinite heat sink.

Mechanical Specifications

HERMETIC GLASS DO-35 PACKAGE



Electrical Specifications at $T_A = 25^\circ\text{C}$

Diode Type	Specification	Symbol	Min	Max	Units	Test Conditions
5082-2800 2810 2811	Breakdown Voltage	V_{BR}	70 20 15		Volts	$I_R = 10 \mu\text{A}$
5082-2800 2810 2811	Forward Voltage	V_F		410 410 410	mV	$I_F = 1 \text{ mA}$
5082-2800 2810 2811	Forward Current	I_F	15 35 20		mA	$V_F = 1 \text{ volt}$ (note 1)
5082-2800 2810 2811	Reverse Leakage Current	I_R		200 100 100	nA	$V_R = 50 \text{ V}$ $V_R = 15 \text{ V}$ $V_R = 8 \text{ V}$
5082-2800 2810 2811	Capacitance	$C_{T(F)}$		2.0 1.2 1.2	pF	$V_R = 0 \text{ V}$ and $f = 1 \text{ MHz}$
5082-2800 2810 2811	Effective Minority Carrier Lifetime			100 100 100	psec	$I_F = 5 \text{ mA}$ Krakauer Method

