

### Absolute Maximum Ratings

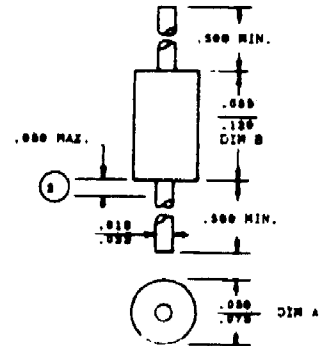
5082-2800 Series

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

Note 1: As measured using an infinite heat sink.

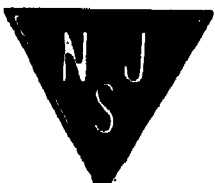
### Mechanical Specifications

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	$I_S = 10 \mu\text{A}$
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	$I_S$		200 100 100	nA	$V_R = 50 \text{ V}$ $V_R = 15 \text{ V}$ $V_R = 8 \text{ V}$
5082-2800 2810 2811	Capacitance	$C_{T1}$		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	p sec	$I_f = 5 \text{ mA}$ Krakauer Method



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