

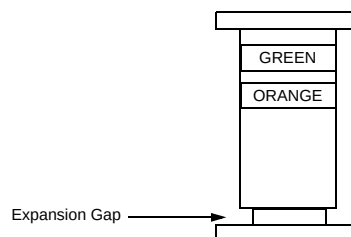
BAV103

High Voltage, General Purpose Diode

General Description

A General Purpose diode that couples high forward conductance fast switching speed and high blocking voltages in a glass leadless LL-34 Surface Mount package.

Placement of the Expansion Gap has no relationship to the location of the Cathode Terminal which is indicated by the first color band.



Absolute Maximum Ratings * $T_A=25^{\circ}\text{C}$ unless otherwise noted

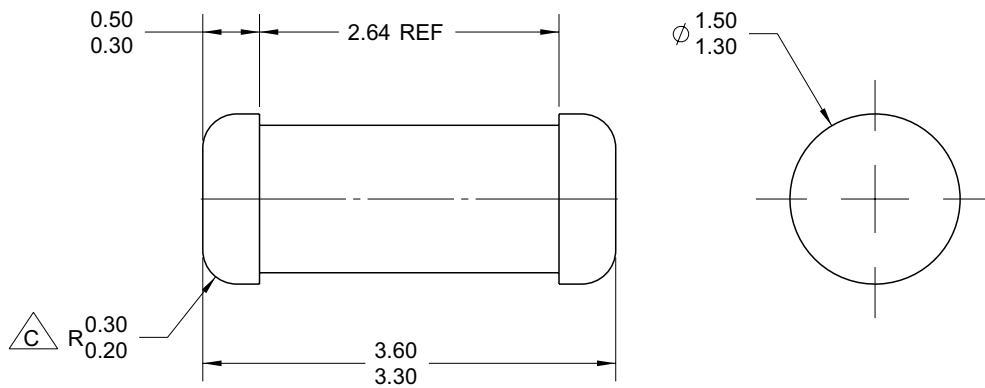
Symbol	Parameter	Value	Units
T_{STG}	Storage Temperature	-65 to +200	$^{\circ}\text{C}$
T_J	Operating Junction Temperature	-65 to +200	$^{\circ}\text{C}$
P_D	Total Power Dissipation at $T_A = 25^{\circ}\text{C}$ Linear Derating Factor from $T_A = 25^{\circ}\text{C}$	500 3.33	mW mW/ $^{\circ}\text{C}$
$R_{\theta JA}$	Thermal Resistance Junction-to-Ambient	350	$^{\circ}\text{C}/\text{W}$
W_{IV}	Working Inverse Voltage	200	V
I_O	Average Rectified Current	200	mA
I_F	DC Forward Current (I_F)	500	mA
i_f	Recurrent Peak Forward Current	600	mA
$i_{F(surge)}$	Peak Forward Surge Current (I_{FSM}) Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 4.0	Amp Amp

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics $T_A=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
B_V	Breakdown Voltage	$I_R = 100\mu\text{A}$	250		V
I_R	Reverse Leakage	$V_R = 200\text{V}$ $V_R = 200\text{V}, T_A = 150^{\circ}\text{C}$		100 100	nA μA
V_F	Forward Voltage	$I_F = 100\text{mA}$ $I_F = 200\text{mA}$		1.00 1.25	V V
C_T	Capacitance	$V_R = 0, f = 1.0\text{MHz}$		5.0	pF
T_{RR}	Reverse Recovery Time	$I_F = I_R = 30\text{mA}, I_{RR} = 1.0\text{mA},$ $R_L = 100\Omega$		50	ns

Physical Dimension



NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE:
JEDEC DO-213, VARIATION AC.

B) ALL DIMENSIONS ARE IN MILLIMETERS.

△C CORNER RADIUS IS OPTIONAL.

D) DRAWING FILE NAME: SOD80A REV01

Dimensions in Millimeters



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