

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

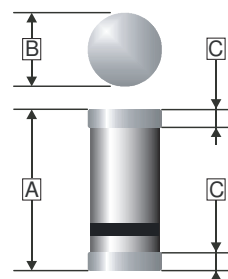
## FEATURES

- Fast switching device ( $T_{RR} < 4.0\text{ns}$ )
- Surface device type mounting
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and terminals are readily solderable
- Matte tin (Sn) terminal finish
- Color band indicates negative polarity

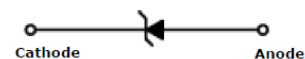
## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-80	2.5K	7 inch

## SOD-80



REF.	Millimeter	
	Min.	Max.
A	3.30	3.60
B	1.40	1.50
C	0.35	0.50



## ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Power dissipation	$P_D$	500	mW
Operating Junction and storage temperature range	$T_J, T_{STG}$	150, -65~150	$^\circ\text{C}$
Working Inverse Voltage	$W_{IV}$	75	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	150	mA
Peak forward Continuous current	$I_{FM}$	450	mA
Peak Forward Surge Current(Pulse Width = 1.0 $\mu\text{second}$ )	$I_{FSURGE}$	2	A

## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	-	V	$I_R=5\mu\text{A}$
Forward Voltage	$V_F$	-	-	1	V	$I_F=50\text{mA}$
Reverse Voltage Leakage Current	$I_R$	-	-	0.05	$\mu\text{A}$	$V_R=50\text{V}$
Total Capacitance	$C_T$	-	-	2	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	$T_{RR}$	-	-	4	nS	$I_F=I_R=10\text{mA}, I_{RR}=1\text{mA}, R_L=100\Omega$