

## Germanium Glass Diode

### Features

- Germanium Glass Diode
- RoHS Compliance



DO-7



### Mechanical Data

<b>Case:</b>	DO-7, molded glass
<b>Terminals:</b>	Plated axial lead, solderable per MIL-STD-202E, Method 208
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.2 gram

### Maximum Ratings and Electrical Characteristics ( $T_A=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N60	1N60P	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	45	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	-	20	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	50		mA	
<b>I<sub>FM</sub></b>	Peak Forward Current	-	150	mA	
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	-	500	mA	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	1.0	-	V	I <sub>F</sub> =5mA
<b>I<sub>F</sub></b>	Minimum Forward Current	-	4	mA	V <sub>F</sub> =1V
<b>V<sub>R</sub></b>	Maximum Reverse Leakage	20	-	V	I <sub>R</sub> =40μA

# Germanium Glass Diode

## 1N60/1N60P

Symbol	Description	1N60	1N60P	Unit	Conditions
<b>IR</b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	-	50	μA	VR=10V
<b>ri</b>	Minimum Rectification Efficiency	-	55	%	VR=20V, Rms=5kΩ, C=20pF, f=40MHz
<b>RthJA</b>	Typical Thermal Resistance, Junction to Ambient	250	-	°C / W	
<b>TJ</b>	Operating Temperature range	-55 to +70	-55 to +75	°C	
<b>TSTG</b>	Storage Temperature Range	-55 to +100	-55 to +75	°C	

### Typical Characteristics Curves

Fig.1- Forward Characteristics

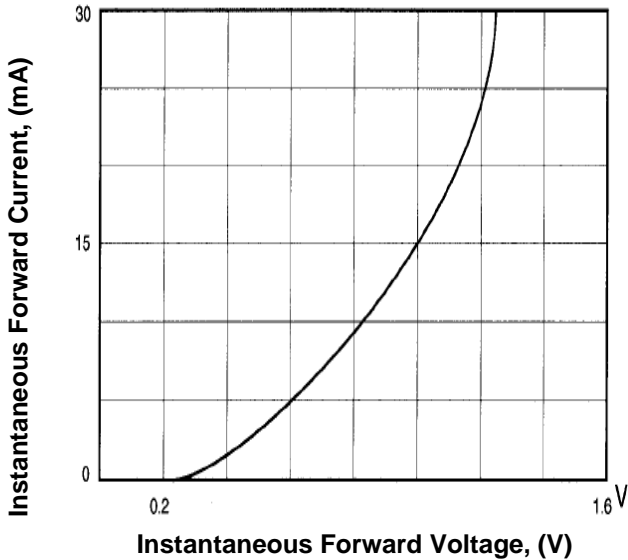
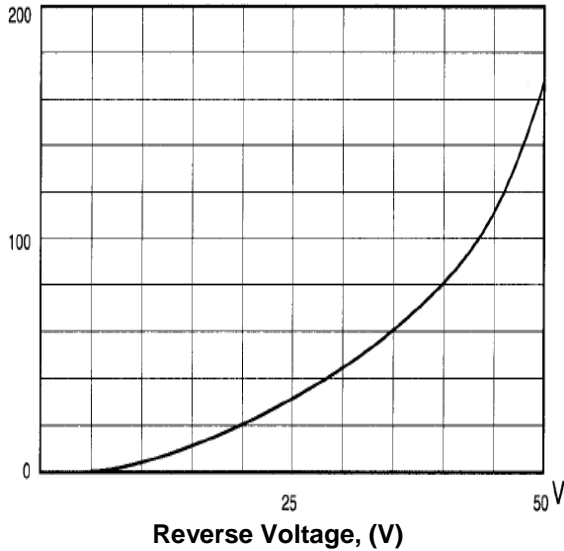
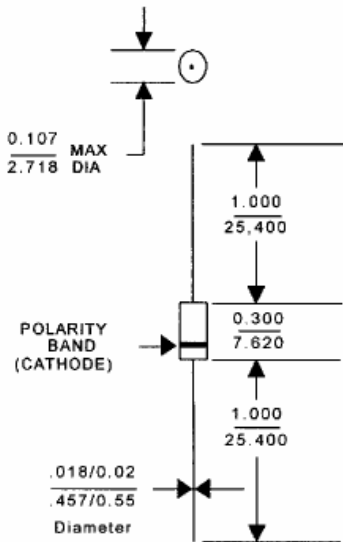


Fig.2- Reverse Characteristics



Dimensions in  $\frac{\text{inch}}{\text{mm}}$



DO-7

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