

Gold Bonded**1N100A****Germanium Diodes***Optimized for Radio Frequency Response*

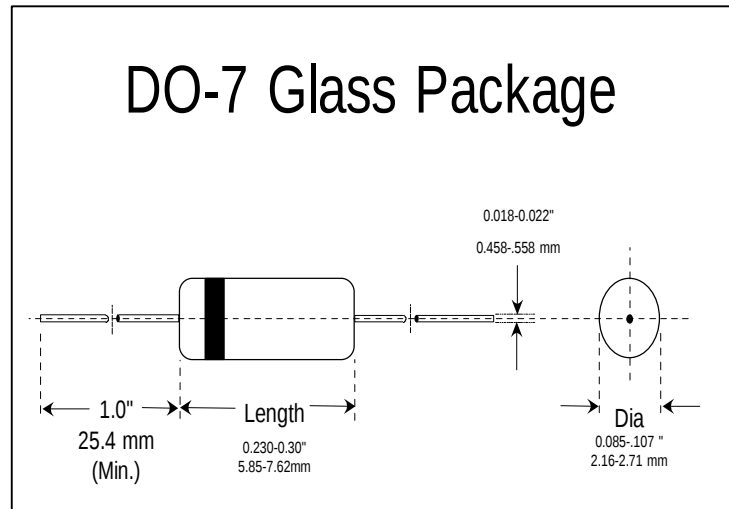
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

Applications

- AM/FM detectors
- Ratio detectors
- FM discriminators
- TV audio detectors
- RF input probes
- TV video detectors

Features

- Lower leakage current
- Flat junction capacitance
- High mechanical strength
- At least 1 million hours MTBF
- BKC's Sigma-Bond™ plating for problem free solderability

**Absolute Maximum Ratings** at $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage	PIV	--	100	Volts
Peak Forward Surge Current Non-Repetitive, $t = 1$ Second	I_{FSM}		0.4	Amps
Peak Forward Surge Current Repetitive	I_{FSR}		250	mA
Average Rectified Forward Current	I_O		70	mA
Operating Temperatures	$T_{J \& Op}$	-78	+90	$^{\circ}\text{C}$
Storage Temperatures	$T_{J \& STG}$	-78	+100	$^{\circ}\text{C}$

Electrical Characteristics at $T_{amb} = 25^{\circ}\text{C}$

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 40\text{mA}$	V_F			1.0	Volts
Reverse Leakage	$V_R = 5\text{ Volts}$	I_R			5	μA
Reverse Leakage	$V_R = 50\text{ Volts}$	I_R			50	μA
Breakdown Voltage	$I_R = 1.0\text{mA}$	PIV	100			Volts

**Microsemi**

6 Lake Street - Lawrence, MA 01841

Tel: 978-681-0392 - Fax: 978-681-9135