

**Gold Bonded****1N60A****Germanium Diodes***Optimized for Radio Frequency Response*

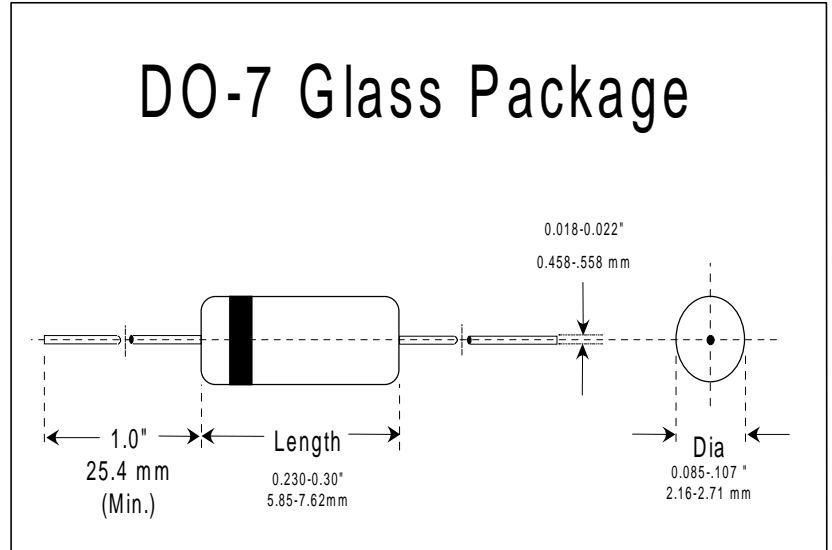
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

**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  $T_{amb} = 25^{\circ}\text{C}$ 

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage	PIV	**	45	Volts
Peak Forward Surge Current Non-Repetitive, $t = 1$ Second	$I_{FSM}$		0.2	Amps
Peak Forward Surge Current Repetitive	$I_{FSR}$		50	mA
Average Rectified Forward Current	$I_O$		50	mA
Operating and Storage Temperatures	$T_{J\&STG}$	-55	+75	$^{\circ}\text{C}$

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

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 5$ mA	$V_F$		**	1.0	Volts
Breakdown Voltage	$I_R = 1.0$ mA	PIV	45			Volts
Reverse Leakage	$V_R = 10$ Volts	$I_R$		**	65	$\mu\text{A}$
Dynamic Resistance Input cycles @40 MHz Modulated @ 400 Hz Input Voltage 1.6 VRMS Without modulation RC Filter Network R=4.7 K,C=5 pF		DR	1.55			Volts(p-p)



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