Gold Bonded 1N60A Germanium Diodes

Optimized for Radio Frequency Response

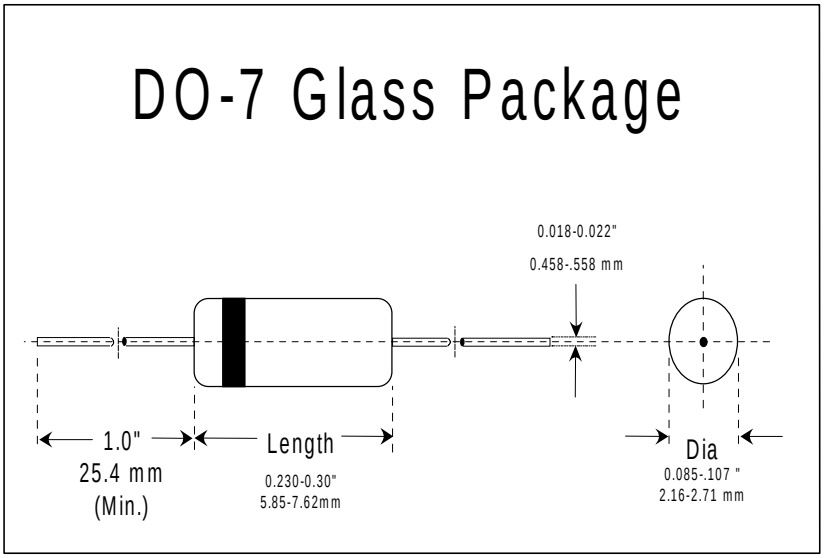
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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 °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	°C

Electrical Characteristics at T_{amb} = 25 °C

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	I_F = 5 mA	V_F		**	1.0	Volts
Breakdown Voltage	Ir = 1.0 mA	PIV	45			Volts
Reverse Leakage	V_R = 10 Volts	I_R		**	65	µA
Dynamic Resistance Input cycles @40 MHz Modulated @ 400 Hz Input Voltage1.6 VRMS Without modulation RC Filter Network R=4.7 K,C=5 pF		DR	1.55			Volts(p-p)

Microsemi

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