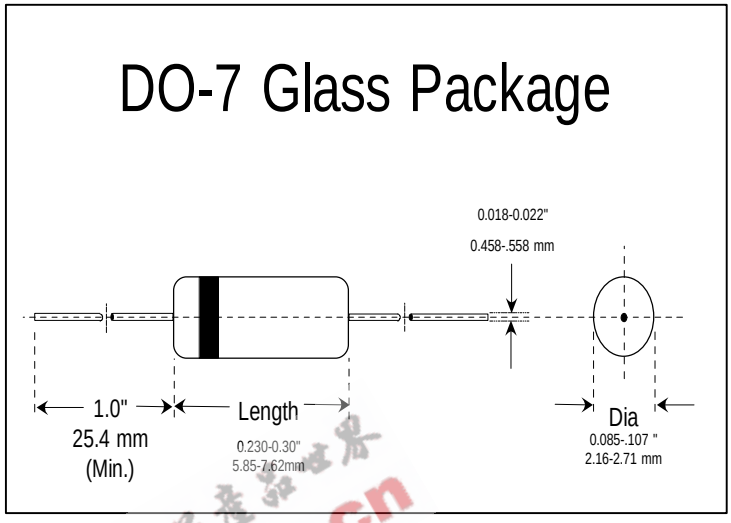
Gold Bonded 1N100A Germanium Diodes

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 °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	°C
Storage Temperatures	$T_{J\ \&\ STG}$	-78	+100	°C

Electrical Characteristics at T_{amb} = 25 °C

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

Microsemi

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