

Gold Bonded

1N100A

Germanium Diodes

Optimized for Radio Frequency Response

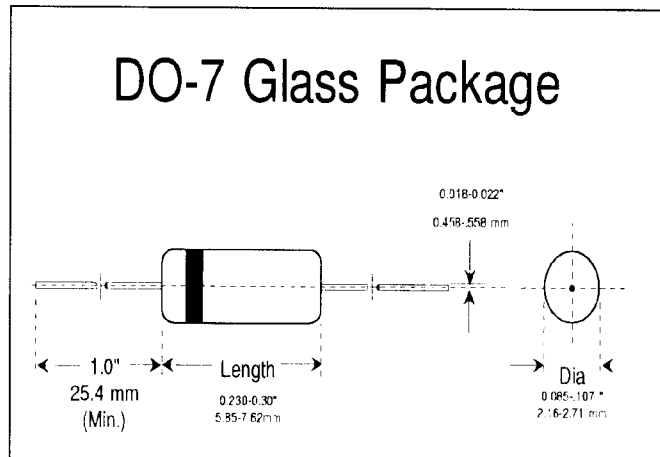
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

### 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



Absolute Maximum Ratings at  $T_{amb} = 25\text{ }^{\circ}\text{C}$  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	$T_{J \& Cp}$	-78	+90	$^{\circ}\text{C}$
Storage Temperatures	$T_{J \& STG}$	-78	+100	$^{\circ}\text{C}$

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

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



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