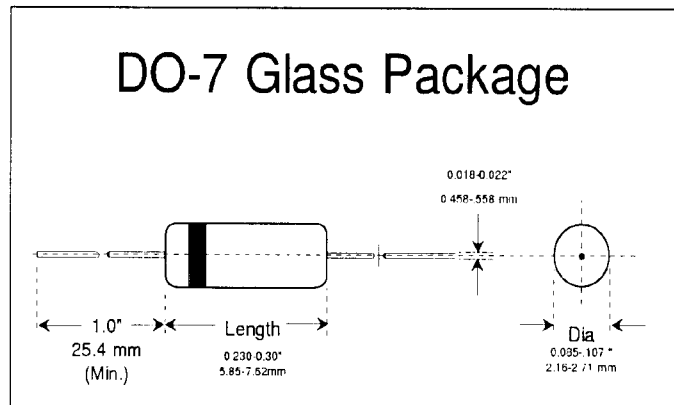


**Gold Bonded****1N277****Germanium Diodes***Optimized for Radio Frequency Response*

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

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage	PIV	**	110	Volts
Breakdown Voltage @ $I_R = 1.0\text{ mA}$	$V_{BR}$	110		Volts
Surge Current, $t = 1\text{ Second}$	$I_{FSM}$		0.5	Amps
Peak Operating Current	$I_{OS}$		270	mA
Average Rectified Forward Current	$I_o$		75	mA
Operating and Storage Temperatures	$T_J \& STG$	-65	+90	$^{\circ}\text{C}$

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

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 100\text{ mA}$	$V_F$			1.00	Volts
Reverse Leakage	$V_R = 10\text{ Volts}, T_{amb} = 75\text{ }^{\circ}\text{C}$	$I_R$	**		75	$\mu\text{A}$
Reverse Leakage	$V_R = 50\text{ Volts}, T_{amb} = 75\text{ }^{\circ}\text{C}$	$I_R$		**	250	$\mu\text{A}$
Breakdown Voltage @ $I_R = 1.0\text{ mA}$		PIV	110			Volts
Junction Capacitance	$f = 1\text{ MHz}, V_R = 0\text{ volt}$	$C_J$		0.8		pF

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