

**Gold Bonded****1N276****Germanium Diodes***Optimized for Radio Frequency Response*

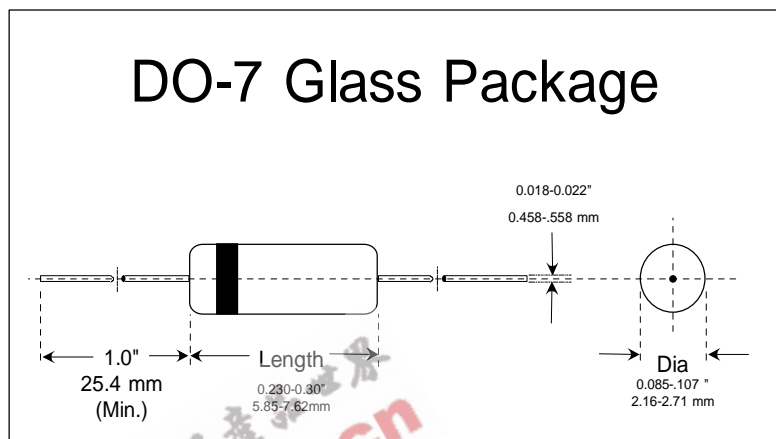
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

## 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  $T_{amb} = 25\text{ }^{\circ}\text{C}$  Unless Otherwise Specified

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage	PIV	**	70	Volts
Surge Current, $t = 1$ Second	$I_S$		0.4	Amps
Peak Operating Current	$I_{FSR}$		270	mA
Operating and Storage Temperatures	$T_{J\&STG}$	-60	+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	$I_F = 40\text{ mA}$	$V_F$		**	1.0	Volts
Breakdown Voltage	$I_R = 1.0\text{ mA}$	PIV		**	75	Volts
Reverse Leakage	$V_R = 10\text{ Volts}$	$I_R$		**	5.0	$\mu\text{A}$
Reverse Leakage	$V_R = 10\text{ Volts}, T_{amb} = 75\text{ }^{\circ}\text{C}$	$I_R$		**	100	$\mu\text{A}$
Junction Capacitance	$f = 1\text{ MHz}, V_R = 0\text{ volt}$	$C_J$		0.8		pF
Reverse Recovery Time	$t_{rr}$ ( $I_f = 5\text{ mA}, I_{rr}(\text{rec.}) @ 0.5\text{ mA}, V_r = -40\text{ Volts}$ )	$t_{rr}$	--	***	300	nSec
Forward Recovery Voltage	$I_f = 50\text{ mA}$ Peak Sine wave 100 KHz	$V_{fr}$	--	***	3.0	Volts



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