

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

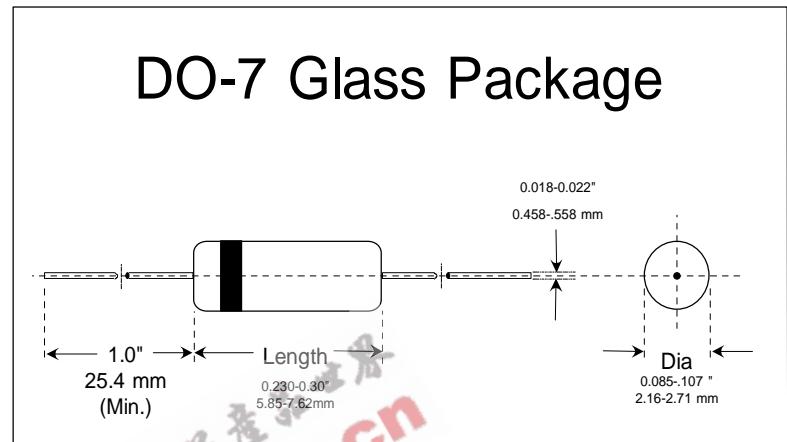
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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 $T_{amb} = 25^{\circ}\text{C}$ Unless Otherwise SpecifiedElectrical Characteristics at $T_{amb} = 25^{\circ}\text{C}$

Parameter	Test Conditions	Symbols	Min.	Typ.	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	°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		µA
Reverse Leakage	$V_R = 10 \text{ Volts}, T_{amb} = 75^{\circ}\text{C}$	I_R	**	100		µA
Junction Capacitance	$f = 1\text{MHz}, V_R = 0 \text{ volt}$	C_J		0.8		pF
Reverse Recovery Time	trr ($I_f = 5 \text{ mA}$, Irr (rec.)@0.5 mA, $V_R = -40 \text{ Volts}$)	trr	--	***	300	nSec
Forward Recovery Voltage	$I_f = 50 \text{ mA}$ PeakSine wave 100 KHz	V_{fr}	--	***	3.0	Volts