

Gold Bonded

1N276

Germanium Diodes

Optimized for Radio Frequency Response

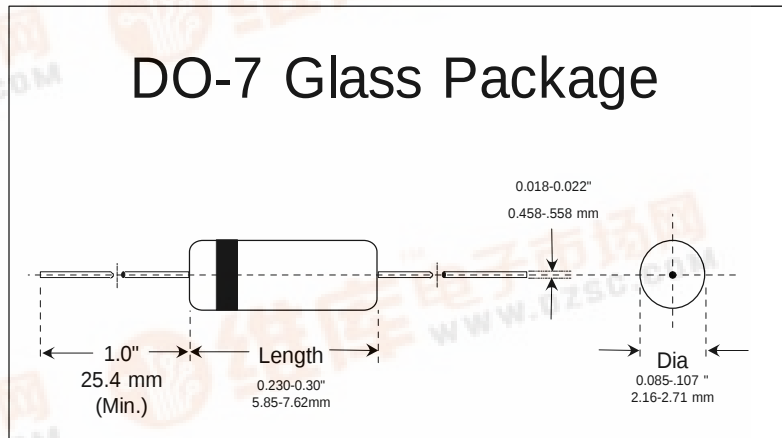
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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

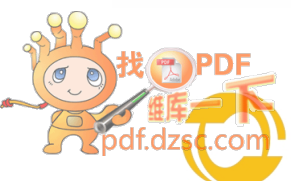


Absolute Maximum Ratings at $T_{amb} = 25^{\circ}\text{C}$ Unless Otherwise Specified

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

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 40$ mA	V_F		**	1.0	Volts
Breakdown Voltage	$I_R = 1.0$ mA	PIV		**	75	Volts
Reverse Leakage	$V_R = 10$ Volts	I_R		**	5.0	μA
Reverse Leakage	$V_R = 10$ Volts, $T_{amb} = 75^{\circ}\text{C}$	I_R		**	100	μA
Junction Capacitance	$f = 1\text{MHz}$, $V_R = 0$ volt	C_J		0.8		pF
Reverse Recovery Time	t_{rr} ($I_f = 5$ mA, I_{rr} (rec.) @ 0.5 mA, $V_R = -40$ Volts)	t_{rr}	--	***	300	nSec
Forward Recovery Voltage	$I_f = 50$ mA Peak Sine wave 100 KHz	V_{fr}	--	***	3.0	Volts



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