



SOLID STATE INC.

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www.solidstateinc.com

Gold Bonded

1N270

Germanium Diodes

Optimized for Radio Frequency Response

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

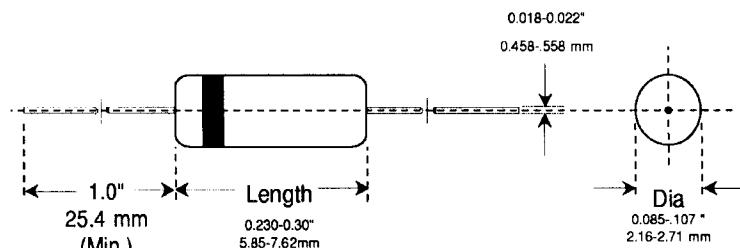
Applications

- 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

DO-7 Glass Package



problem free solderability

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

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage	PIV	**	100	Volts
Surge Current , t = 1 Second	I_{FSM}		0.5	Amps
Average Rectified Forward Current	I_o		40	mA
Peak Operating Current	I_{os}		325	mA
Operating and Storage Temperatures	$T_{J \& STG}$	-65	+90	$^{\circ}\text{C}$

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

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 200 \text{ mA}$	V_F		1.00		Volts
Breakdown Voltage @ $I_R = 1.0 \text{ mA}$		PIV	100			Volts
Reverse Leakage	$V_R = 50 \text{ Volts}$	I_R	**	100		μA
Junction Capacitance	$f = 1\text{MHz}, V_R = 1 \text{ volt}$	C_J	0.8			pF