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1N270 Germanium Diode Optimized for Radio Frequency Response

Description:

The 1N270 is a Germanium Diode in a DO-7 type glass package that can be used in many AM, FM and TV-IF applications, replacing point contact devices.

Features:

- DO-7 Glass Package
- Lower Leakage Current
- High Mechanical Strength

Applications:

- AM/FM Detectors
- TV Audio Detectors
- Radio Detectors
- RF Input Probes
- FM Discriminators
- TV Video Detectors

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Peak Inverse Voltage, PIV	100V
Surge Current ($t = 1$ second), I_{FSM}	500mA
Average Rectified Forward Current, I_O	40mA
Peak Operating Current, I_{OS}	325mA
Operating Junction Temperature, T_J	-65° to $+90^\circ\text{C}$
Storage Temperature Range, T_{stg}	-65° to $+90^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Drop	V_F	$I_F = 200\text{mA}$	-	-	1	V
Breakdown Voltage	PIV	$I_R = 1\text{mA}$	100	-	-	V
Reverse Leakage	I_R	$V_R = 50\text{V}$	-	-	100	A
Junction Capacitance	C_J	$V_R = 1\text{V}, f = 1\text{MHz}$	-	0.8	-	pF

