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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, $T_J$ .....	$-65^\circ$ to $+90^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-65^\circ$ 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	$\mu\text{A}$
Junction Capacitance	$C_J$	$V_R = 1\text{V}, f = 1\text{MHz}$	-	0.8	-	pF

