

**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.

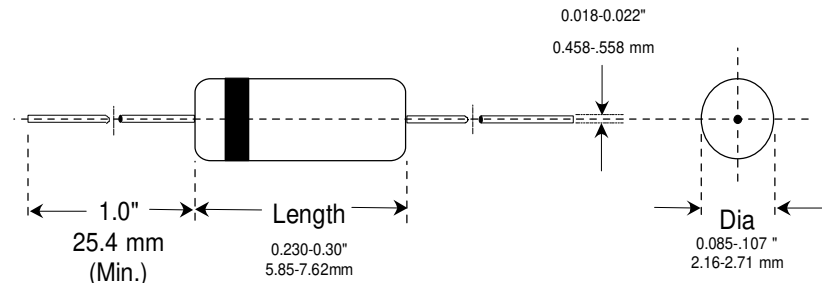
## Applications

- 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
- At least 1 million hours MTBF
- BKC's Sigma-Bond™ plating for problem free solderability

## DO-7 Glass Package

**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  | $\mu\text{A}$ |
| Junction Capacitance                       | $f = 1\text{MHz}, V_R = 1 \text{ volt}$ | $C_J$   |      | 0.8  |      | pF            |



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