

Gold Bonded**1N60A****Germanium Diodes***Optimized for Radio Frequency Response*

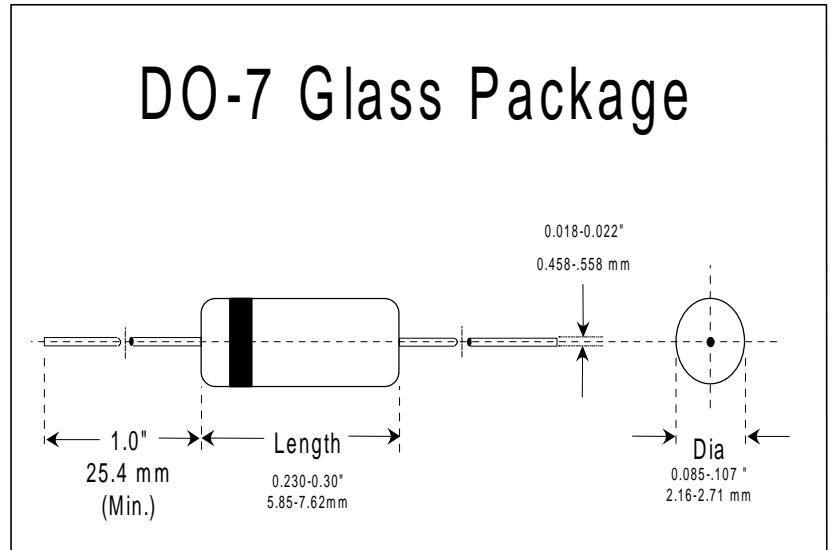
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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

| Parameter | Symbols | Min. | Max. | Units |
|---|--------------|------|------|--------------------|
| Peak Inverse Voltage | PIV | ** | 45 | Volts |
| Peak Forward Surge Current Non-Repetitive, $t = 1$ Second | I_{FSM} | | 0.2 | Amps |
| Peak Forward Surge Current Repetitive | I_{FSR} | | 50 | mA |
| Average Rectified Forward Current | I_O | | 50 | mA |
| Operating and Storage Temperatures | $T_{J\&STG}$ | -55 | +75 | $^{\circ}\text{C}$ |

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

| Parameter | Test Conditions | Symbols | Min. | Typ. | Max. | Units |
|--|-------------------------|---------|------|------|------|---------------|
| Forward Voltage Drop | $I_F = 5\text{ mA}$ | V_F | | ** | 1.0 | Volts |
| Breakdown Voltage | $I_R = 1.0\text{ mA}$ | PIV | 45 | | | Volts |
| Reverse Leakage | $V_R = 10\text{ Volts}$ | I_R | | ** | 65 | μA |
| Dynamic Resistance Input cycles @40 MHz Modulated @ 400 Hz Input Voltage 1.6 VRMS Without modulation RC Filter Network $R=4.7\text{ K}, C=5\text{ pF}$ | | DR | 1.55 | | | Volts(p-p) |



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