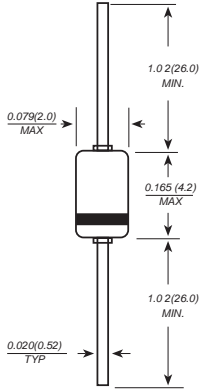


1N5712

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 20 Volts P_{tot} - 430 mW

DO-35(GLASS)



Dimensions in inches and (millimeters)

FEATURES

- ◆ Fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
250°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-35 glass case

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.14 grams

ABSOLUTE RATINGS

| | SYMBOLS | Value | UNITS |
|--|----------------|-------------|-------|
| Peak reverse voltage | V_{RRM} | 20 | V |
| Power dissipation (Infinite heat sink) | P_{tot} | 430 | mW |
| Forward continuous current | I_F | 35 | mA |
| Junction and storage temperature range | T_J, T_{STG} | -55 to +150 | °C |
| Maximum lead temperature for soldering during 10s at 4mm form case | T_L | 230 | °C |

ELECTRICAL CHARACTERISTICS

| | SYMBOLS | Min. | Typ. | Max. | UNITS |
|--|-----------|------|------|------|-------|
| Reverse breakover voltage at $I_R=10mA$ | V_R | 20 | | | V |
| Leakage current at $V_R=15V$ | I_R | | | 100 | nA |
| Forward voltage drop at $I_F=1mA$ | V_F | | | 0.41 | V |
| Test pulse: $t_p < 300ms$ $d < 2\%$ $I_F=15mA$ | | | | 1.0 | V |
| Junction capacitance at $V_R=0V$, $f=1MHz$ | C_J | | | 1.2 | pF |
| Thermal resistance | R_{qJA} | | | 400 | K/W |

RATINGS AND CHARACTERISTIC CURVES 1N5712

FIG. 1-REVERSE CURRENT VERSUS AMBIENT TEMPERATURE

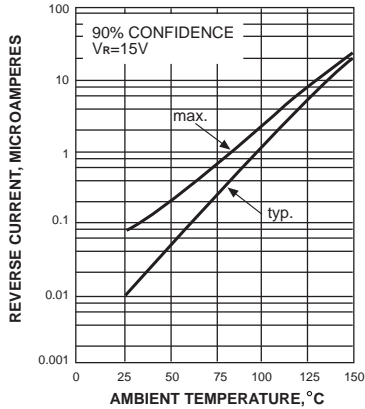


FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE (TYPICAL VALUES)

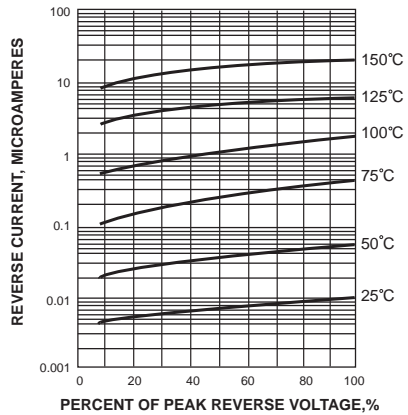


FIG. 3-CAPACITANCE VERSUS REVERS APPLIED VOLTAGE VR(TYPICAL VALUES)

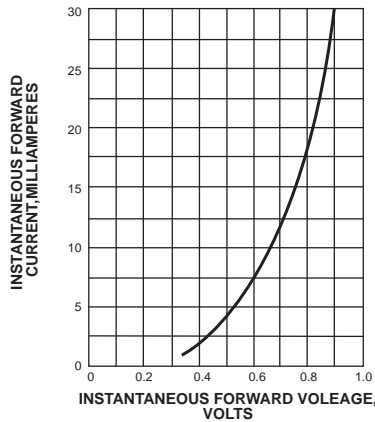


FIG. 4-FORWARD CURRENT VERSUS FORWARD VOLTAGE AT DIFFERENT TEMPERATURES(TYPICAL VALUES)

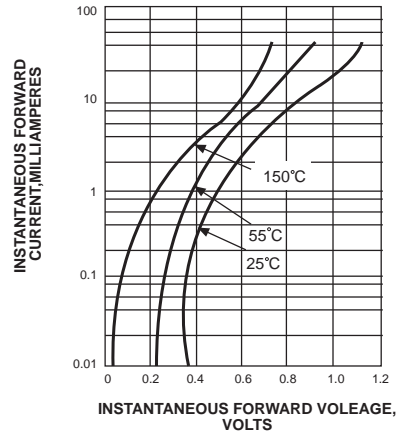


FIG. 5-FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)

