



GR26EG

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

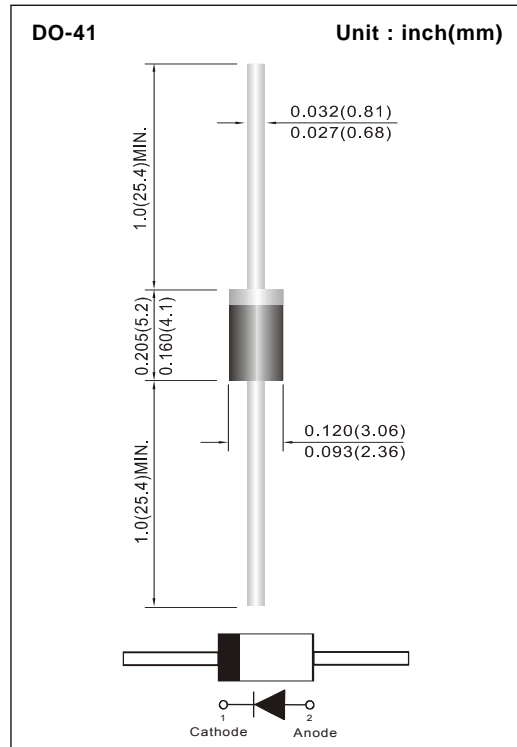
VOLTAGE 1000 Volt **CURRENT** 1 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Ultra Fast recovery for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: Molded plastic, DO-41
 Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Weight: 0.0118 ounce, 0.336 gram
 Marking: Part number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

| PARAMETER | SYMBOL | VALUE | UNITS |
|---|-----------------|-------------|-----------------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 1000 | V |
| Maximum Average Forward Current 0.375"(9.5mm) lead length at $T_A=55^\circ\text{C}$ | $I_{F(AV)}$ | 1 | A |
| Peak Forward Surge Current : 10ms single half sine-wave superimposed on rated load | I_{FSM} | 30 | A |
| Maximum Forward Voltage at 1A | V_F | 1.7 | V |
| Typical Forward Voltage at 1A $T_J=150^\circ\text{C}$ | V_F | 1.1 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$ | I_R | 1 150 | μA |
| Typical Junction Capacitance (Note 1) | C_J | 17 | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 60 | $^\circ\text{C} / \text{W}$ |
| Maximum Reverse Recovery Time (Note 3) | t_{rr} | 75 | ns |
| Maximum Power Dissipation at $T_{amb}=25^\circ\text{C}$ | P_D | 1.5 | W |
| Typical Forward Reverse Time (Note 4) | t_{fr} | 550 | ns |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +175 | $^\circ\text{C}$ |

NOTES :

1. Measured at 1 MHz and applied reverse voltage of 4 VDC.
2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375"(9.5mm) P.C.B. mounted.
3. Reverse Recovery Time $I_F=0.5\text{A}$, $I_R=-1\text{A}$, $I_{rr}=-0.25\text{A}$
4. $I_F=1\text{A}$, $V_{Fmeas} = 1.1 \times V_F$



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RATING AND CHARACTERISTIC CURVES

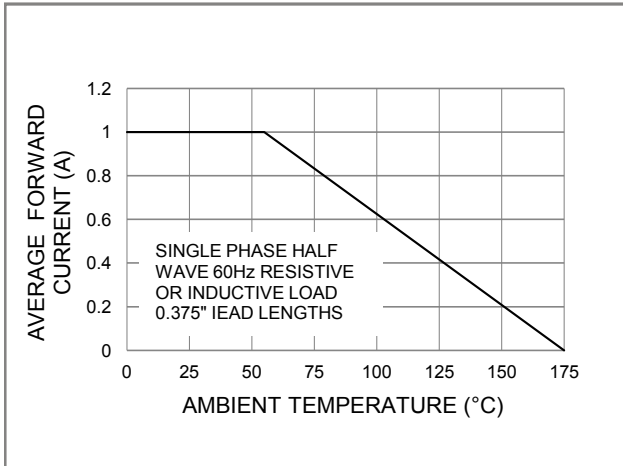


Fig. 1 FORWARD CURRENT DERATING CURVE

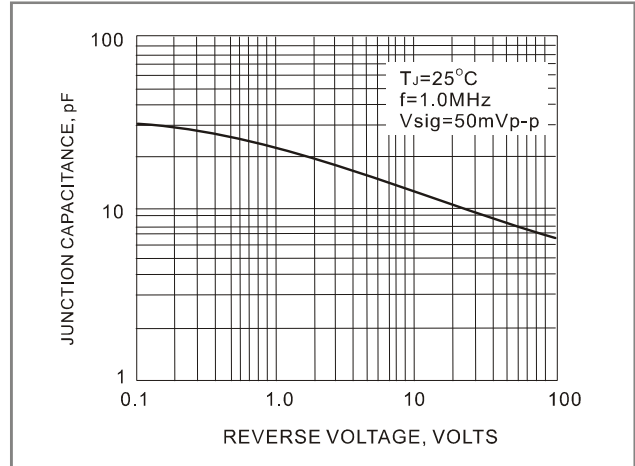


Fig. 2 TYPICAL JUNCTION CAPACITANCE

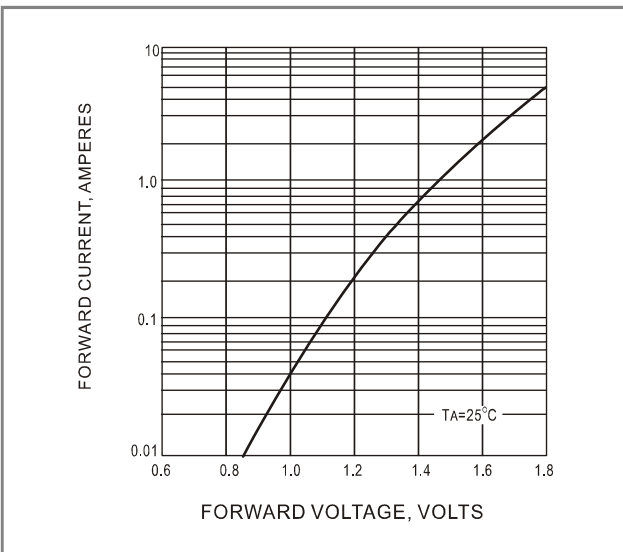


Fig. 3 FORWARD CHARACTERISTICS

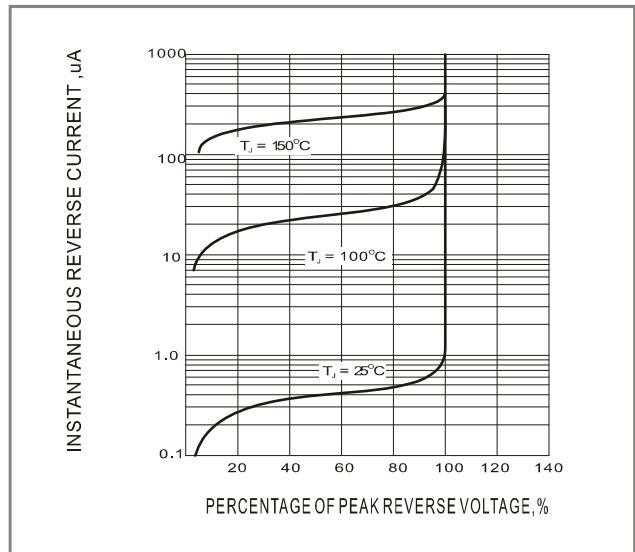


Fig. 4-TYPICAL REVERSE CHARACTERISTIC



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