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

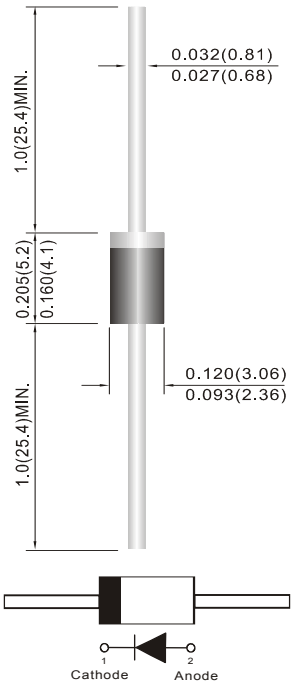
Terminals: Axial leads, solderable per MIL-STD-750,Method 2026

Polarity: Color band denotes cathode end

Weight: 0.0118 ounce, 0.336 gram

Marking: Part number

DO-41 **Unit : inch(mm)**



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 TA=55°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 TJ=150°C	V_F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage TJ=25°C TJ=125°C	I_R	1 150	μA
Typical Junction Capacitance (Note 1)	C_J	17	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60	°C / W
Maximum Reverse Recovery Time (Note 3)	t_{rr}	75	ns
Maximum Power Dissipation at Tamb=25°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	°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=0.5A ,I_R=-1A , I_{rr}=-0.25A
4. I_F=1A , $V_F$meas = 1.1 x V_F

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RATING AND CHARACTERISTIC CURVES

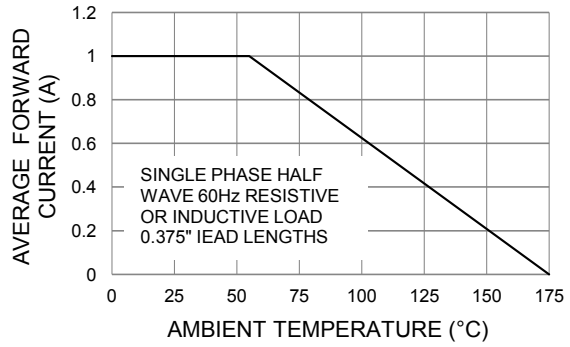

Fig.1 FORWARD CURRENT DERATING CURVE

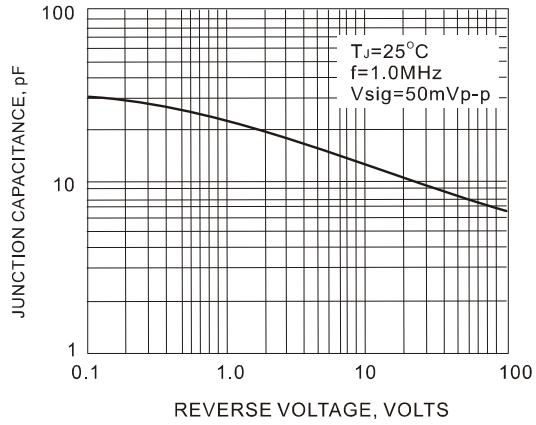

Fig. **2** TYPICAL JUNCTION CAPACITANCE

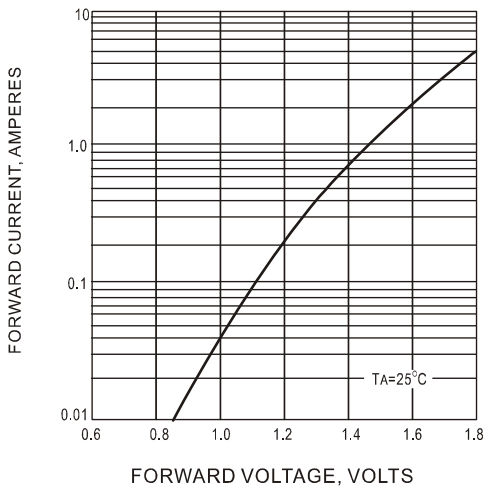

Fig.3 FORWARD CHARACTERISTICS

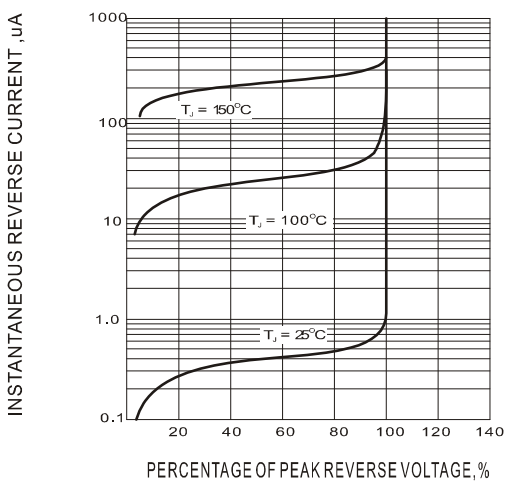

Fig.4-TYPICAL REVERSE CHARACTERISTIC

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