



PG1517S

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE 1700 Volt **CURRENT** 1.5 Ampere

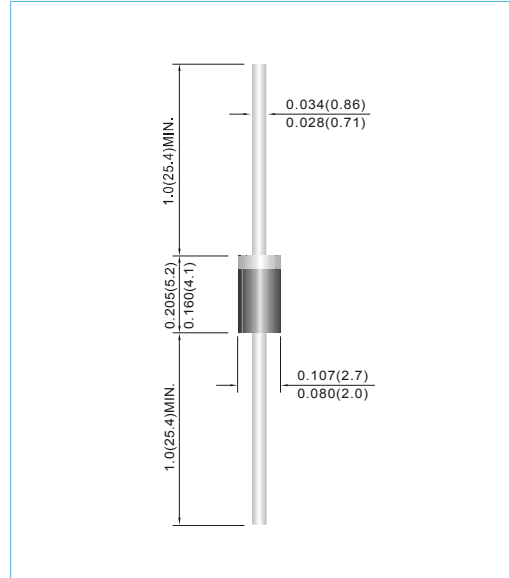
DO-41 Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-41
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0118 ounce, 0.336 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz, Single phase, half wave, For capacitive load, derate current by 20%

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1700	V
Maximum RMS Voltage	V_{RMS}	1190	V
Maximum DC Blocking Voltage	V_{DC}	1700	V
Maximum Average Forward Current .375"(9.5mm) lead length	$I_{F(AV)}$	1.5	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50	A
Rating for Fusing (t<8.3ms)	I^2t	10.375	A ² sec
Maximum Forward Voltage at 1.5A	V_F	2.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	1	μA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	110	°C / W
(Note 2)	$R_{\theta JL}$	43	
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

NOTES: 1. Test without heat sink.

2. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area and valid provided that leads at a distance of 10mm.



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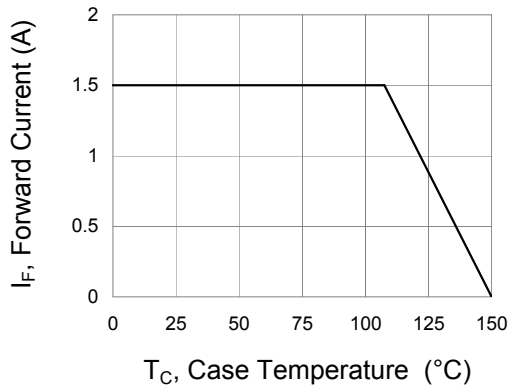


Fig.1 Forward Current Derating Curve

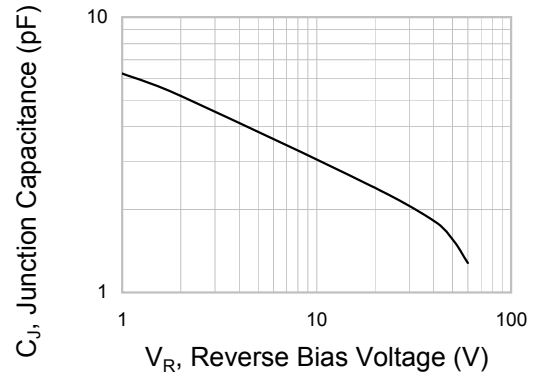


Fig.2 Typical Junction Capacitance

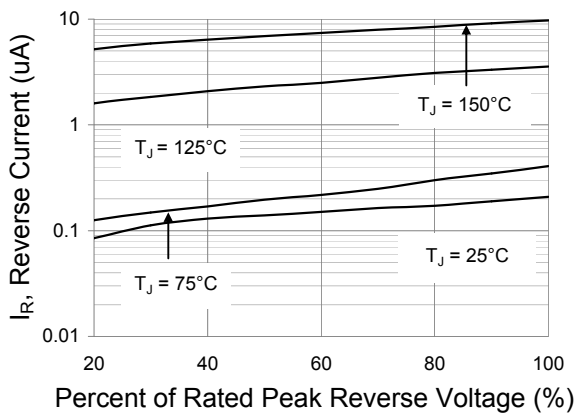


Fig.3 Typical Reverse Characteristics

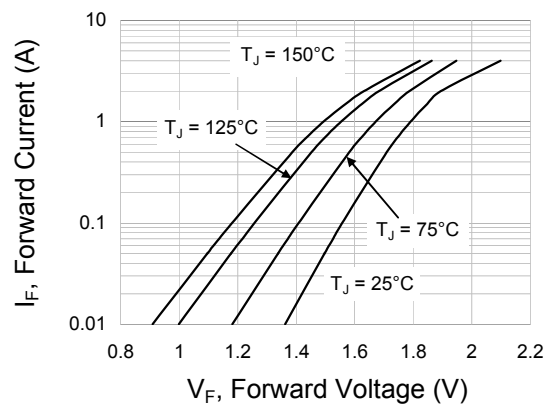


Fig.4 Typical Forward Characteristics