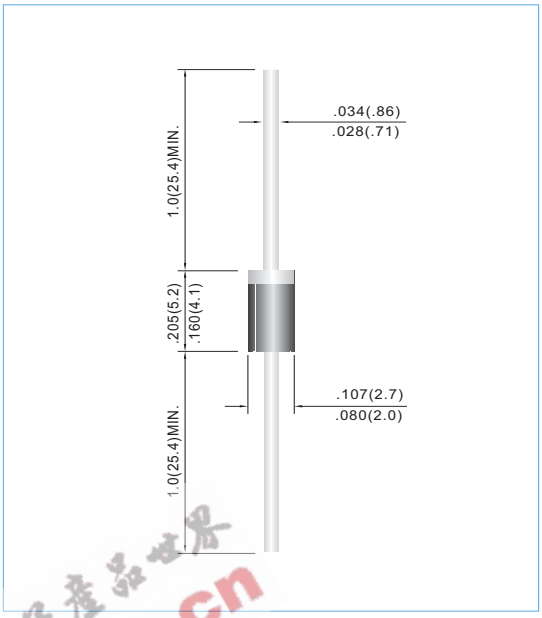
PANJIT SEMI CONDUCTOR

1N5817~1N5819

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 40 Volts **CURRENT** 1.0 Ampere

DO-41 Unit: inch(mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage,high frequency inverters ,free wheeling ,and polarity protection applications .
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode
- Mounting Position: Any
- Weight: 0.012 ounces, 0.3 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Current .375"(9.5mm) lead length at Ta =90°C	$I_{F(AV)}$	1.0			A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	25			A
Maximum Forward Voltage at 1.0A DC Maximum Forward Voltage at 3.0A DC	V_F	0.47 0.75	0.55 0.875	0.60 0.90	V
Maximum DC Reverse Current T_J=25°C at Rated DC Blocking Voltage T_J=100°C	I_R	0.5 10			mA
Typical Thermal Resistance	$R_{\theta JA}$	80			°C / W
Operating Junction Temperature Range	T_J	-50 TO +125			°C
Storage Temperature Range	T_{STG}	-50 TO +150			°C

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RATING AND CHARACTERISTIC CURVES

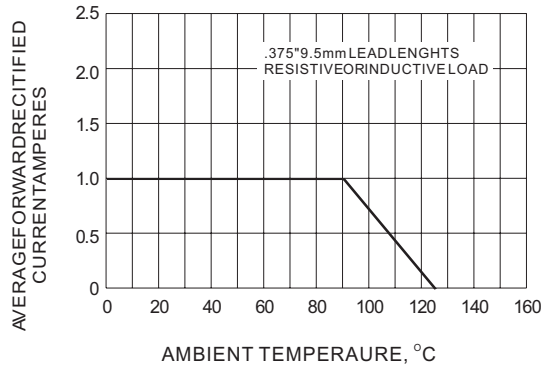

Fig.1- FORWARD CURRENT DERATING CURVE

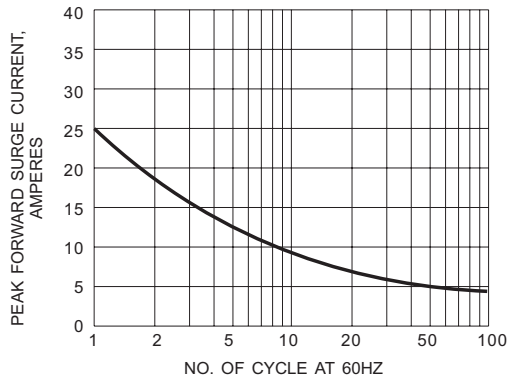

Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

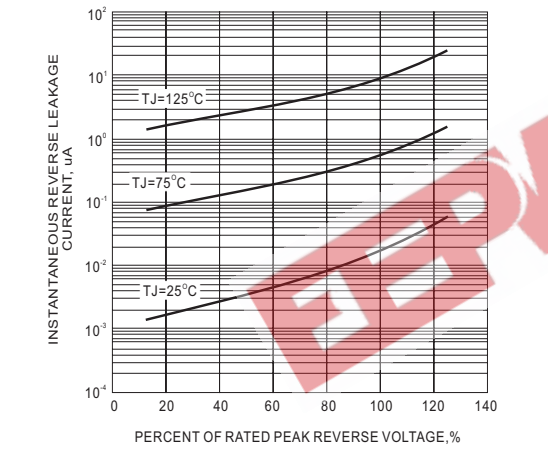

Fig.3- TYPICAL REVERSE CHARACTERISTIC

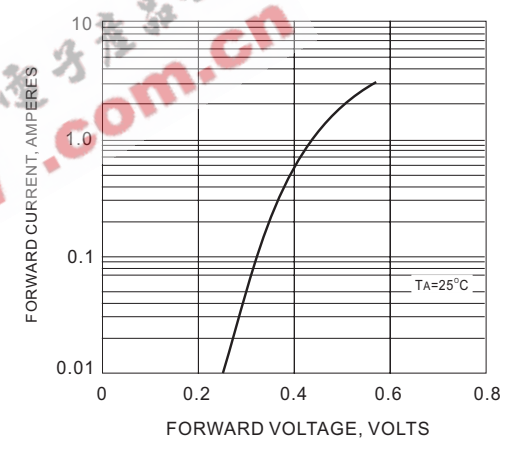

Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

LEGAL STATEMENT