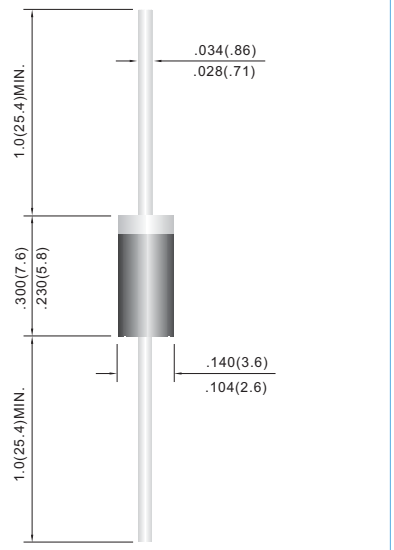
PANJIT SEMI CONDUCTOR

UF150G~UF156G

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 600 Volts **CURRENT** 1.5 Amperes

DO-15 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.
- Ultra Fast recovery for high efficiency.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.014 ounce, 0.397 gram

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	UF150G	UF151G	UF152G	UF154G	UF156G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A=55°C	$I_{F(AV)}$	1.5					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	50					A
Maximum Forward Voltage at 1.5A	V_F	1.0			1.3	1.7	V
Maximum DC Reverse Current T_J=25°C at Rated DC Blocking Voltage T_J=125°C	I_R	1.0 150					μA
Typical Junction capacitance (Note 1)	C_J	25					pF
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$	50					°C / W
Maximum Reverse Recovery Time (Note 3)	t_{rr}	50				100	ns
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150					°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal Resistance from Junction to Ambient.
3. Reverse Recovery Time I_F=.5A ,I_R=1A , I_{rr}=.25A

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RATING AND CHARACTERISTIC CURVES

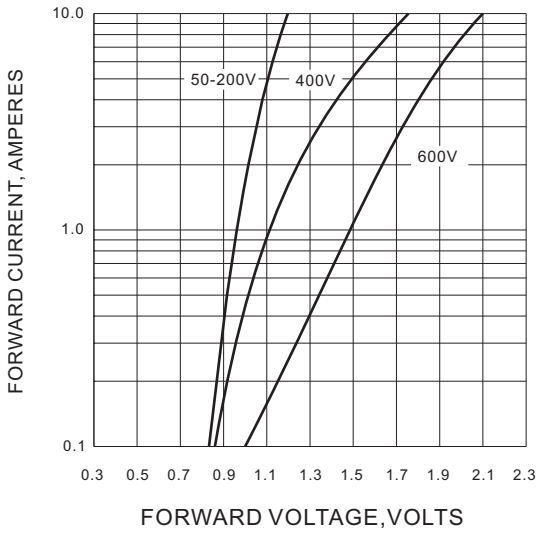

Fig.1 FORWARD CHARACTERISTICS

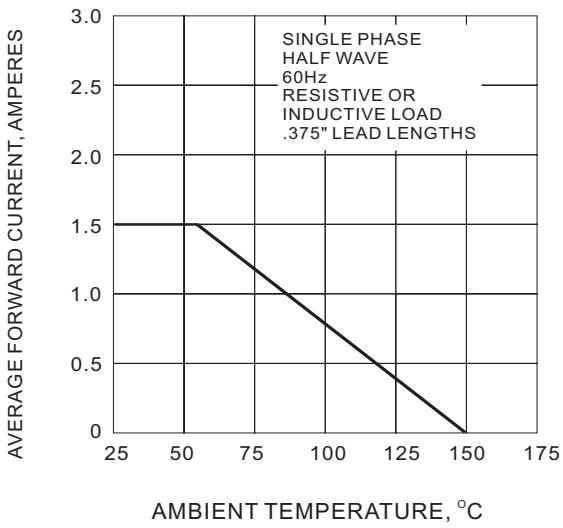

Fig.2 FORWARD CURRENT DERATING CURVE

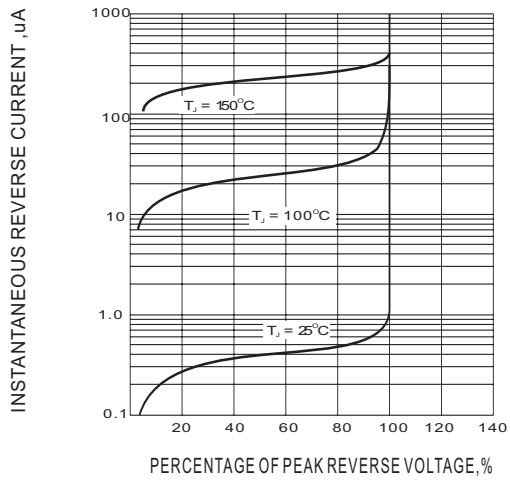

Fig.3- TYPICAL REVERSE CHARACTERISTIC

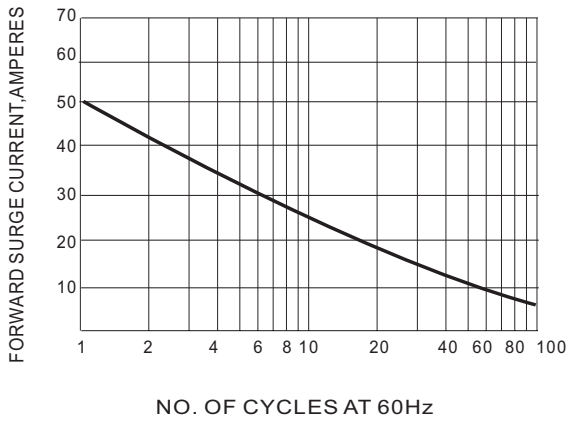

Fig.4 PEAK FORWARD SURGE CURRENT