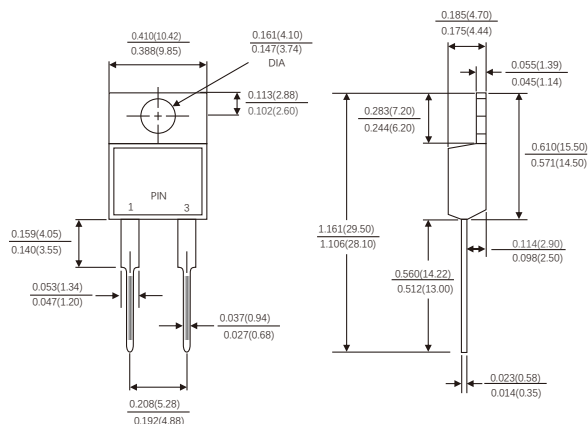


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2015/863/EU



TO-220AC



MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters	Symbols	Value	Units
Maximum repetitive peak reverse voltage	V_{RRM}	600	Volts
Maximum RMS voltage	V_{RMS}	420	Volts
Maximum DC blocking voltage	V_{DC}	600	Volts
Maximum average forward rectified current(see Fig.1)	$I_{(AV)}$	6.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70	Amps
Maximum instantaneous forward voltage at 6.0 A(Note 1)	V_F	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25^{\circ}C$	5	μA
	$T_a=125^{\circ}C$	50	
Maximum Reverse Recovery Time (Note 2)	t_{rr}	35	nS
Typical thermal resistance (Note 3)	$R_{\theta JC}$	2.5	$^{\circ}C/W$
Operating junction temperature range	T_J	-55 to+150	$^{\circ}C$
Storage temperature range	T_{STG}	-55 to+150	$^{\circ}C$

Notes: 1. Pulse test: 300 μ s pulse width,1% duty cycle

2. Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

3. Thermal resistance from junction to case

Fig.1-Forward Current Derating Curve

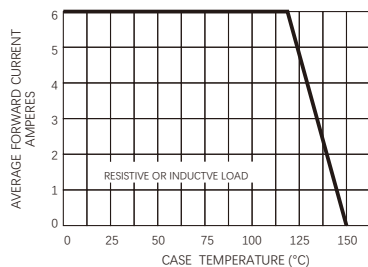


Fig.2-Maximum Non-repetitive Peak Forward Surge Current

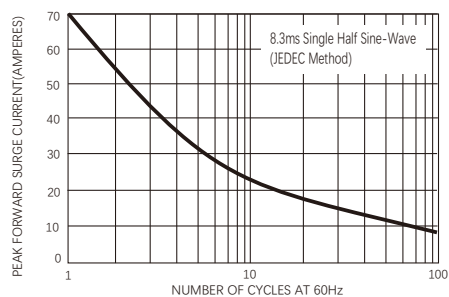


Fig.3-Typical Instantaneous Forward Characteristics

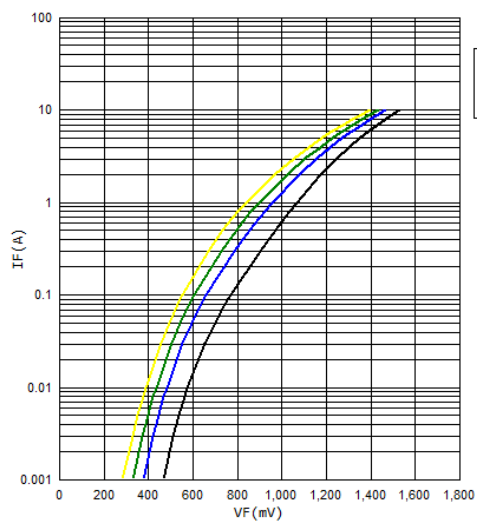
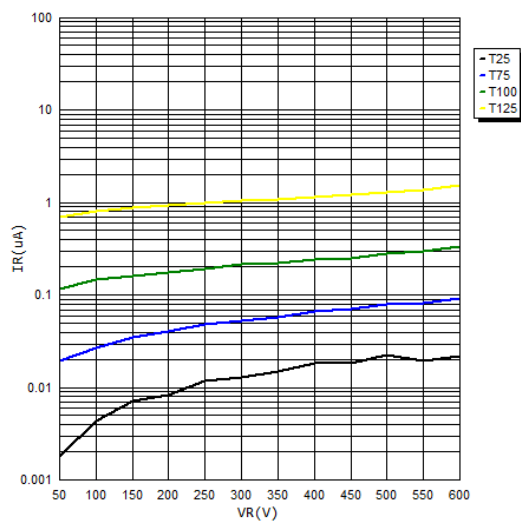


Fig.4-Typical Reverse Characteristics



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