

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

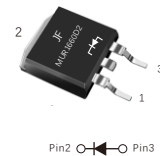
TO-220AC



ITO-220AC



TO-263
MUR1660D2



MECHANICAL DATA

- Case: JEDEC TO-220AC, ITO-220AC, TO-263 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)	$I_{(AV)}$	16.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250	Amps
Maximum instantaneous forward voltage at 16.0 A(Note 1)	V_F	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a = 25^\circ\text{C}$	5	μA
	$T_a = 125^\circ\text{C}$	50	
Maximum Reverse Recovery Time (Note 2)	t_{rr}	35	ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	TO-220AC/TO-263	1.3
		ITO-220AC	3.5
Operating junction temperature range	T_J	-55 to +150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

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

3. Thermal resistance from junction to case

FIG.1-FORWARD CURRENT DERATING CURVE

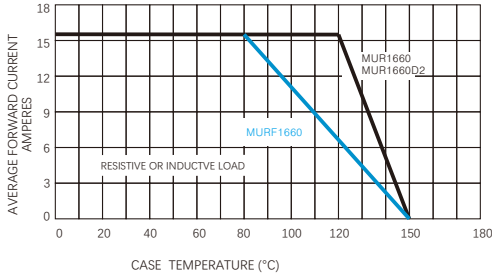


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

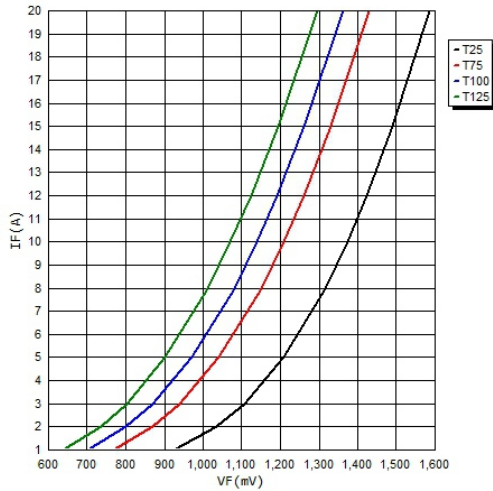


FIG.5-TYPICAL JUNCTION CAPACITANCE

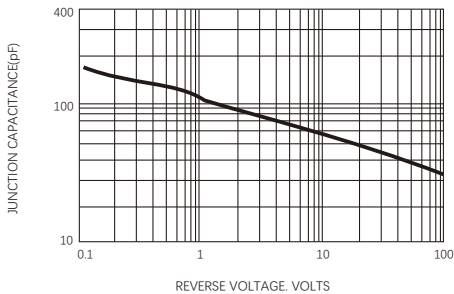


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

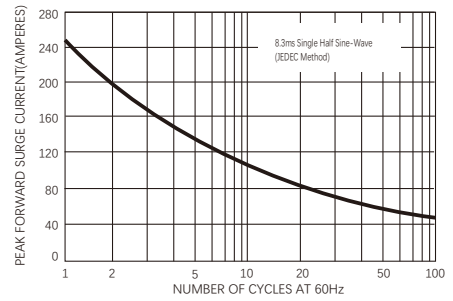
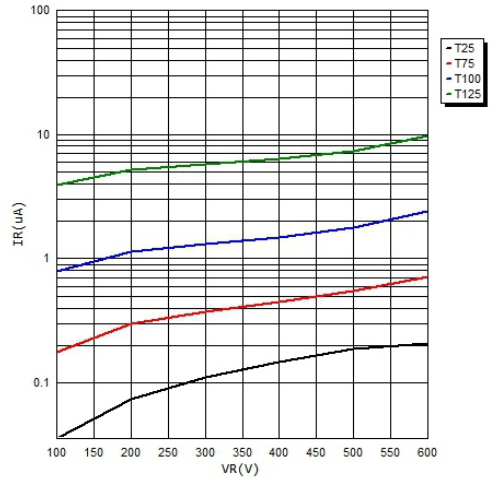
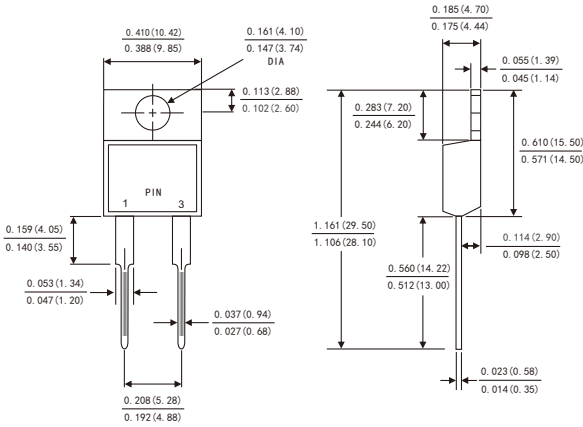


FIG.4-TYPICAL REVERSE CHARACTERISTICS

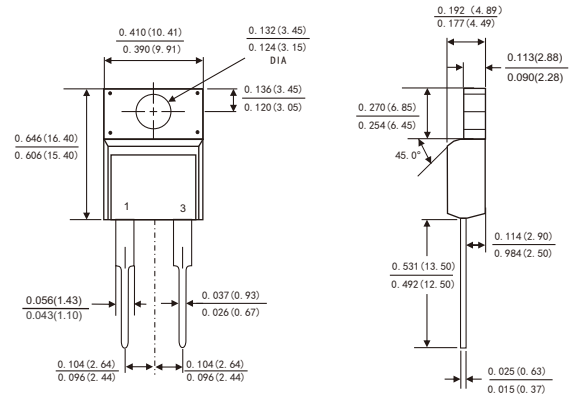


Dimensions in inches and (millimeters)

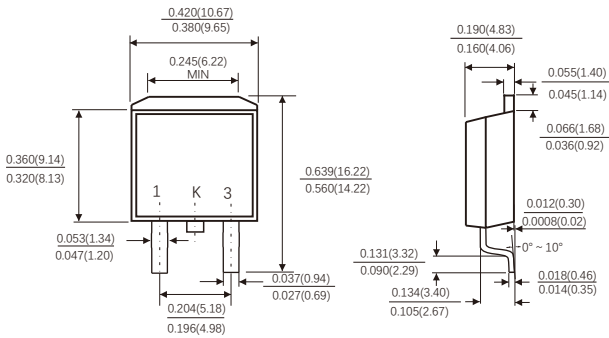
TO-220AC



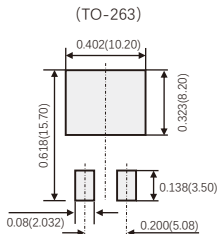
ITO-220AC



TO-263



Suggested Pad Layout



(对于TO263, 设计者可参考推荐值根据焊接工艺要求自行确定适合的焊盘尺寸)
(For TO-263, Designers can refer to the recommended values according to the manufacturing process requirements to determine the appropriate pad size)

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