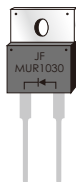
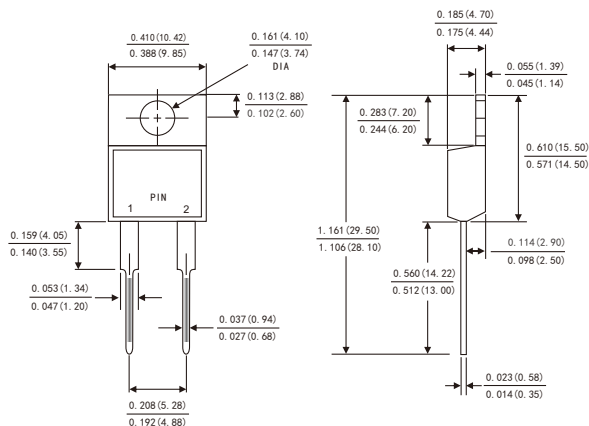


FEATURES

- 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 2011/65/EU



TO-220AC



Dimensions in inches and (millimeters)

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	MUR1030				Units
Maximum repetitive peak reverse voltage		V _{RRM}	300				Volts
Maximum RMS voltage		V _{RMS}	210				Volts
Maximum DC blocking voltage		V _{DC}	300				Volts
Maximum average forward rectified current(see Fig.1)		I _(AV)	10.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	120				Amps
Forward voltage	I _F =5A	V _F	TYP.	0.95	MAX.	/	Volts
	I _F =10A		TYP.	/	MAX.	1.2	
Maximum instantaneous reverse current at rated DC blocking voltage	T _a =25°C	I _R	5				μA
	T _a =125°C		50				
Maximum Reverse Recovery Time (Note 2)		t _{rr}	35				ns
Typical thermal resistance (Note 2)		R _{θJC}	2.5				°C/W
Operating junction temperature range		T _J	-55 to+175				°C
Storage temperature range		T _{STG}	-55 to+175				°C

Notes:

1. Reverse recovery test conditions I_F=0.5A,I_R=1.0A, I_{rr}=0.25A
2. Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES MUR1030

FIG.1-FORWARD CURRENT DERATING CURVE

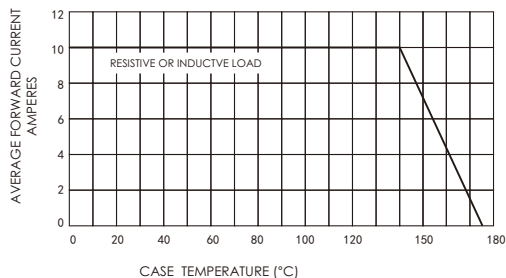


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

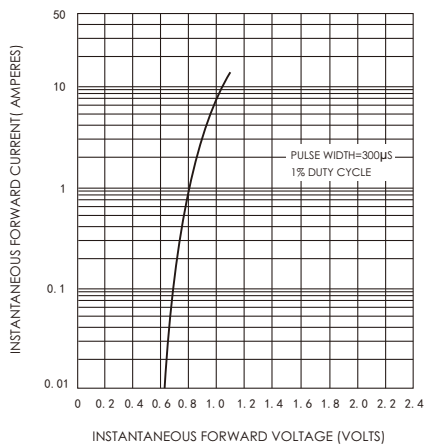


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

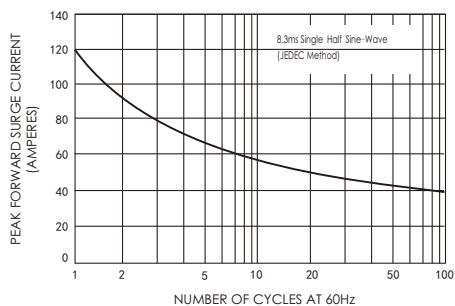


FIG.4-TYPICAL REVERSE CHARACTERISTICS

