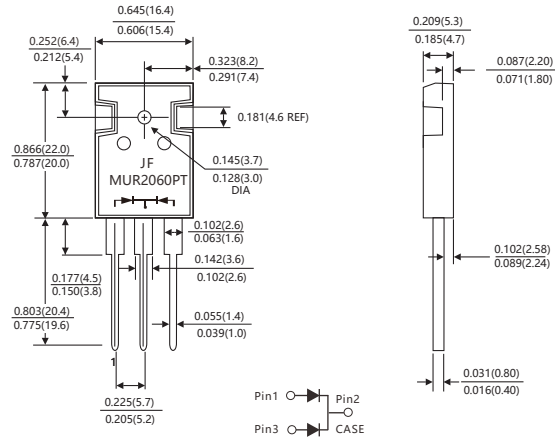


## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Low Reverse Leakage Current
- High surge capability
- High temperature soldering guaranteed:260°C/10 seconds,  
0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU

## TO-247AB

Unit:mm



## MECHANICAL DATA

- Case: TO-247AB 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%.)

		Symbols	MUR 2010PT	MUR 2020PT	MUR 2030PT	MUR 2040PT	MUR 2050PT	MUR 2060PT	Units
Maximum repetitive peak reverse voltage		VRRM	100	200	300	400	500	600	Volts
Maximum RMS voltage		VRMS	70	140	210	280	350	420	Volts
Maximum DC blocking voltage		VDC	100	200	300	400	500	600	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	I(AV)	10						Amps
	Total device		20						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	200						Amps
Maximum instantaneous forward voltage at 10.0 A per leg(Note 1 )		VF	1.0		1.3		1.7		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta=25°C	IR	5						μA
	Ta=125°C		50						
Maximum Reverse Recovery Time (Note 2)		trr	35		50				ns
Typical thermal resistance (Note 3)		RθJC	1.0						°C/W
Operating junction temperature range		TJ	-55 to+150						°C
Storage temperature range		TSTG	-55 to+150						°C

**Notes:** 1. Pulse test: 300  $\mu s$  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

# RATINGS AND CHARACTERISTIC CURVES MUR2010PT THRU MUR2060PT

FIG.1-FORWARD CURRENT DERATING CURVE

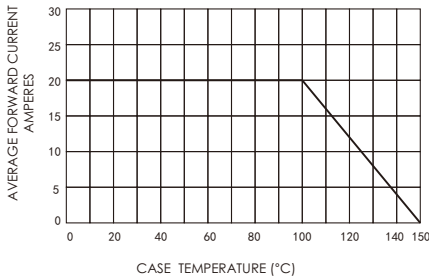


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

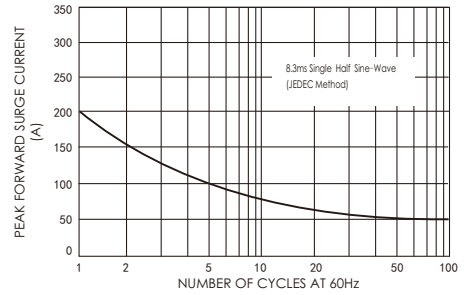


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

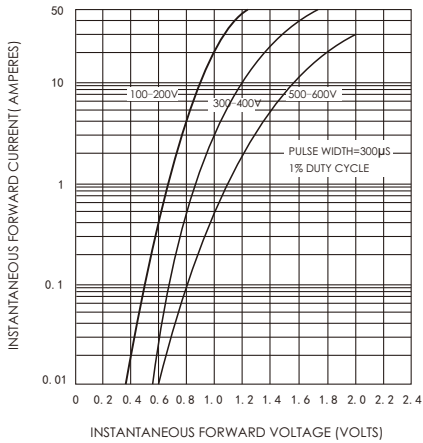


FIG.4-TYPICAL REVERSE CHARACTERISTICS

