

MURB1020CT - MURB1060CT

10.0 A SUPER FAST RECTIFIERS



FEATURES

- Super fast switching time for high efficiency
- Low forward voltage drop
High current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case: TO-263 Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Mounting position :Any

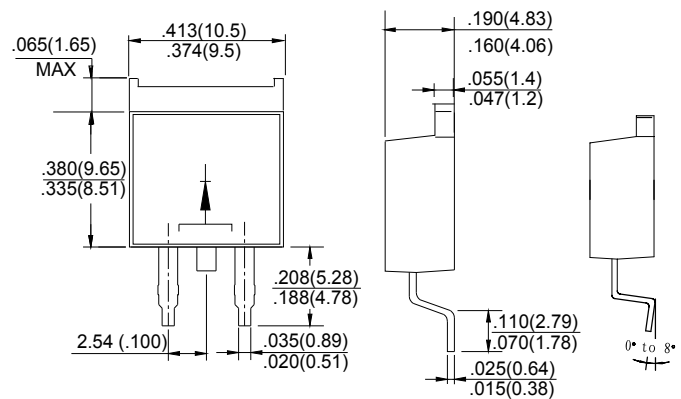
VOLTAGE RANGE

200 to 600 Volts

CURRENT

10.0 Ampere

TO-263



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS		MURB1020CT	MURB1040CT	MURB1060CT	
Maximum Recurrent Peak Reverse Voltage	V	200	400	600	V
Maximum RMS Voltage	V _{RMS}	140	210	420	V
		200	400	600	V
Maximum Average Forward Rectified Current	I _(AV)	10.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	125			A
Peak Instantaneous Forward Voltage at 10.0A DC	V _F	1.0	1.3	1.7	V
Maximum DC Reverse Current @T _J =25℃	I _R	10			μA
at Rated DC Blocking Voltage @T _J =100℃		150			
Maximum Reverse Recovery Time(Note1)	T _{RR}	35			nS
Typical Junction Capacitance (Note2)	C _J	40			pF
Typical Thermal Resistance (Note3)	R _{θJA}	5			℃/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150			℃

NOTES:1. Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A

2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to ambient

4. The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

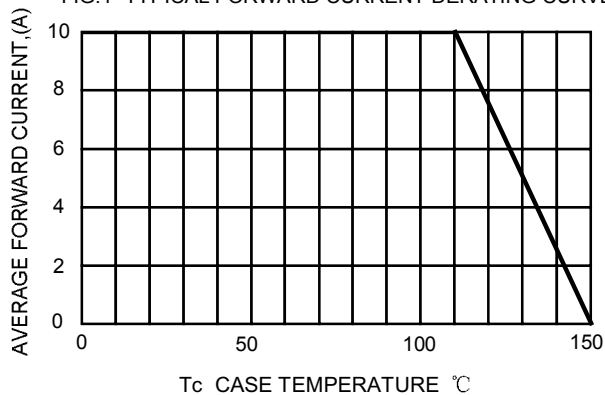


FIG.2-TYPICAL REVERSE CHARACTERISTICS

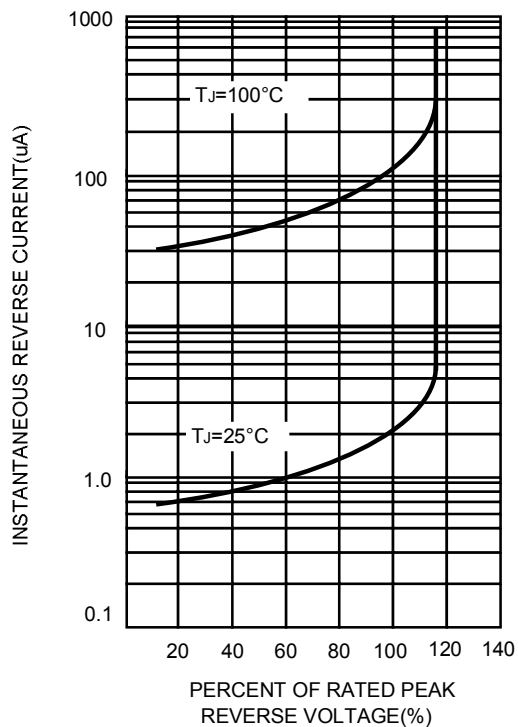


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

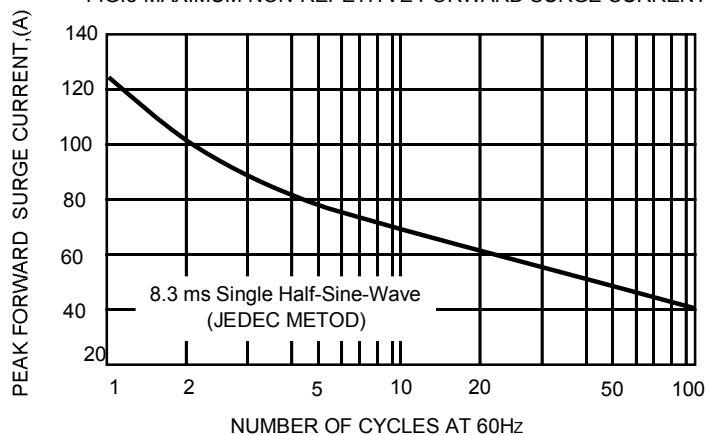


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

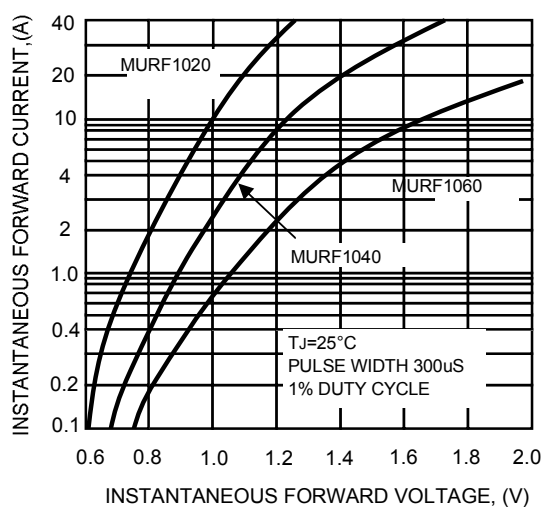
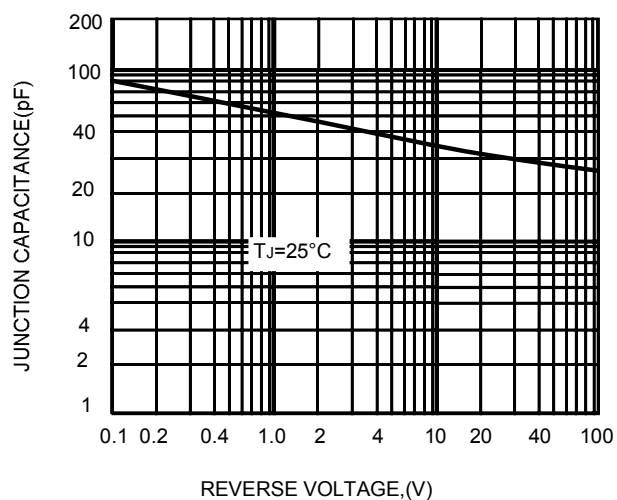


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!