



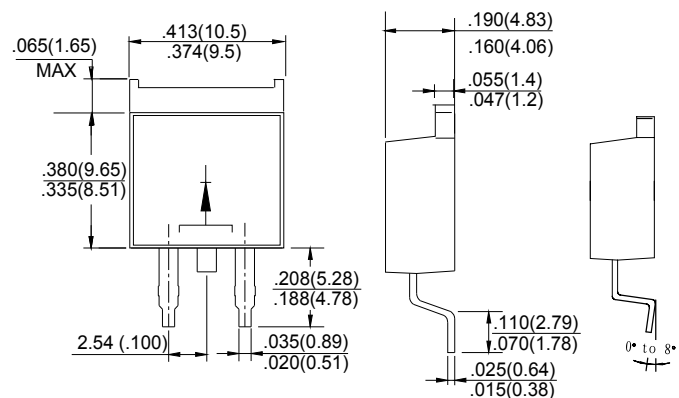
FEATURES

- 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

TO-263



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

CHARACTERISTICS	Symbol	MUR1020BCT	MUR1040BCT	MUR1060BCT	
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 Forward Voltage at 5.0A DC	V _F	1.0	1.3	1.7	V
Maximum DC Reverse Current @T _J =25℃ at Rated DC Blocking Voltage @T _J =100℃	I _R	10 500			μA
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

RATING AND CHARACTERISTIC CURVES

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

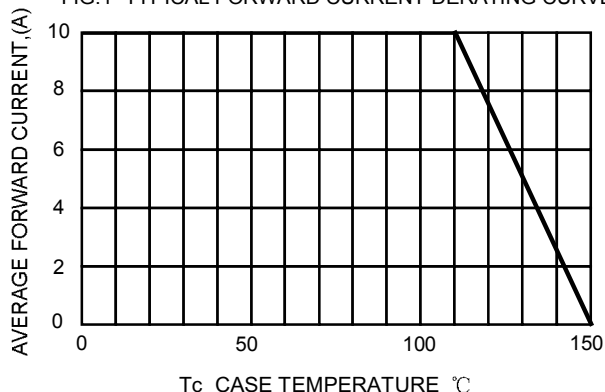


FIG.2-TYPICAL REVERSE CHARACTERISTICS

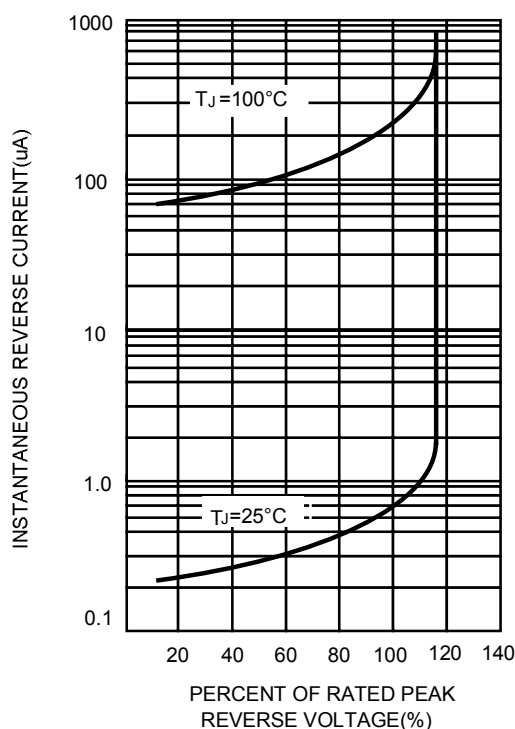


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

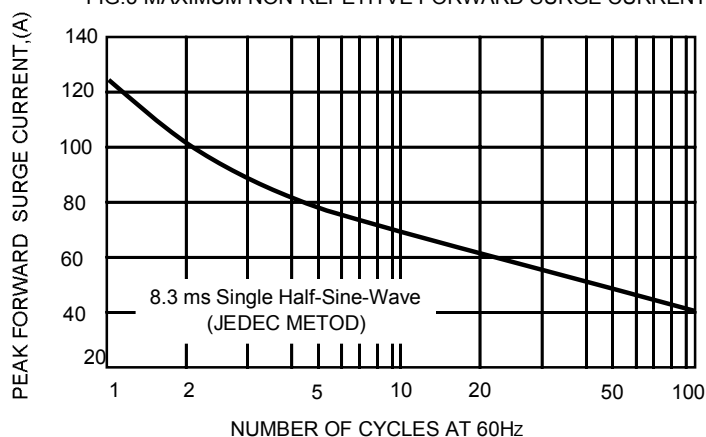


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

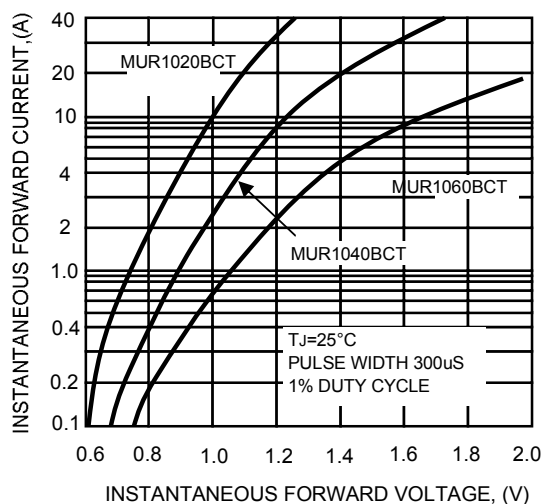
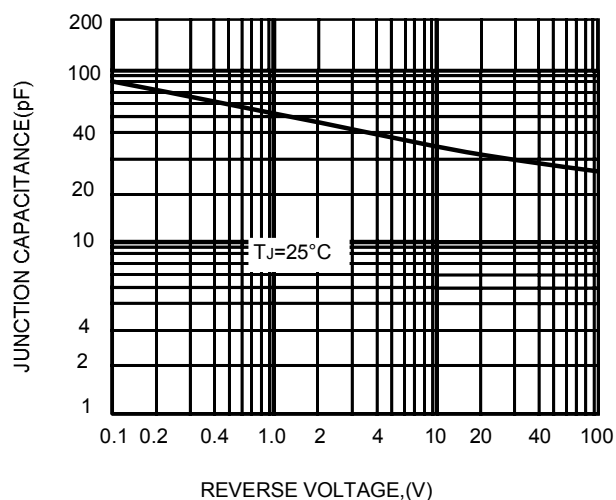


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment

Ordering Information

Package	Packing	Box Size L×W×H(mm)	Quatity(pcs/box)	Carton Size L×W×H(mm)	Quatity(pcs/carton)
TO-263	50pcs/Tube	560×150×50	1000	570×290×180	5000
TO-263	800pcs/Reel	335×335×40	800	370×370×440	4800