



### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* Low Power Loss, High Efficiency

### MECHANICAL DATA

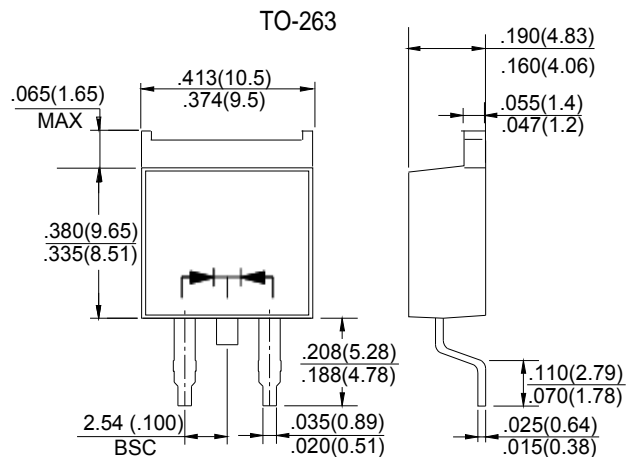
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

200 Volts

### CURRENT

20.0 Ampere



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

- \* Rating at 25 °C ambient temperature unless otherwise specified.
- \* Single phase, half wave, 60 Hz, resistive or inductive load.
- \* For capacitive load, derate current by 20%

Type Number	Symbol	MUR 2020BCT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	200	V
Maximum RMS Voltage	VRMS	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Rectified Current	IF	20	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	120	A
Maximum Instantaneous Forward Voltage @10A	VF	1.0	V
Maximum Reverse Current @ Rated VR TA=25 °C TA=125 °C	IR	5.0 500	uA
Typical Junction Capacitance (Note 1)	Cj	170	pF
Typical Thermal Resistance(Note 2)	RθJA	30	°C/w
Operating and Storage Temperature Range	TJ	-65~+150	°C
Maximum reverse recovery time (Note 3)	Trr	30	nS

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

NOTE3. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.



### RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

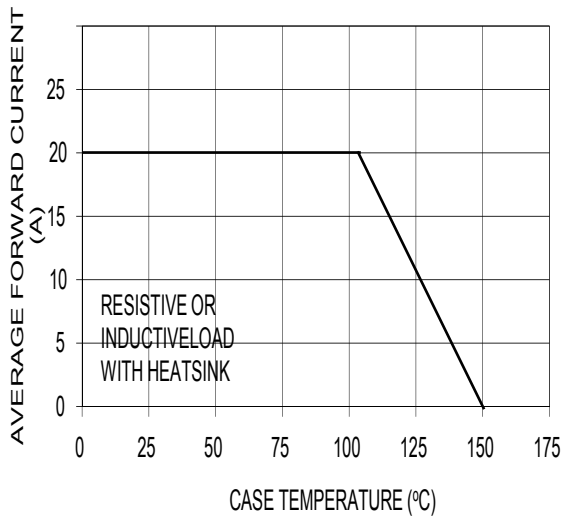


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

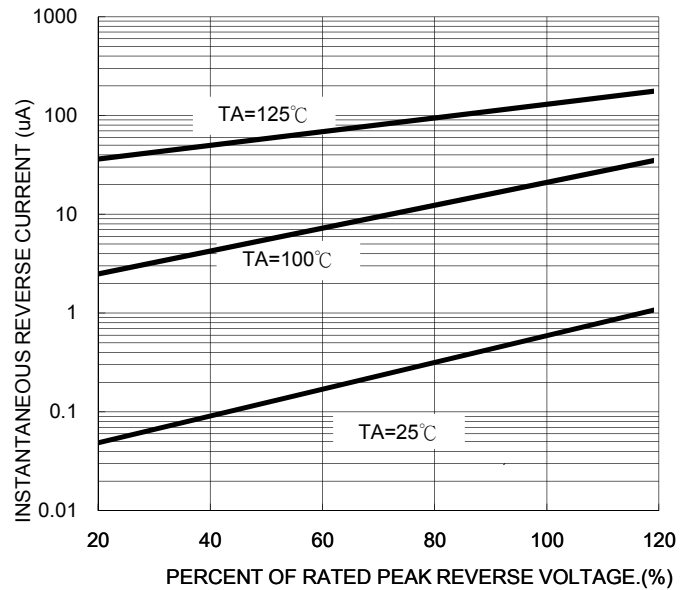


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

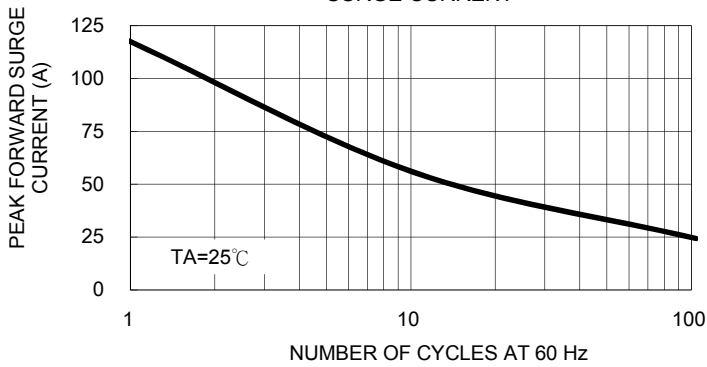


FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

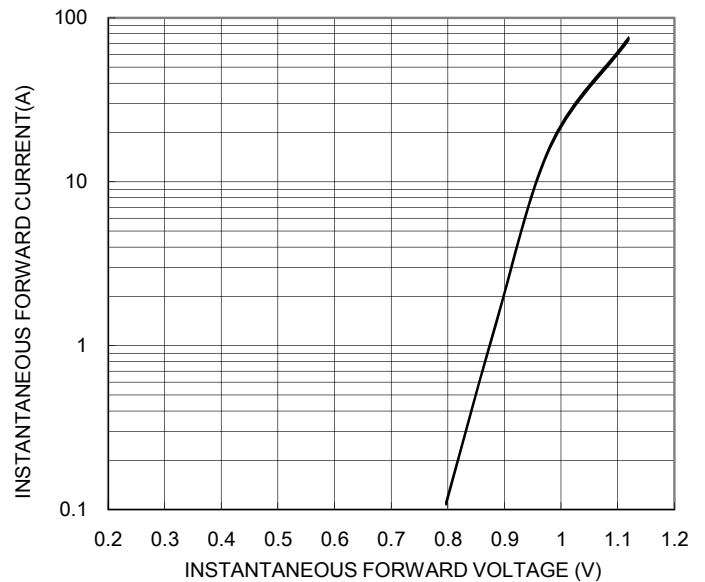
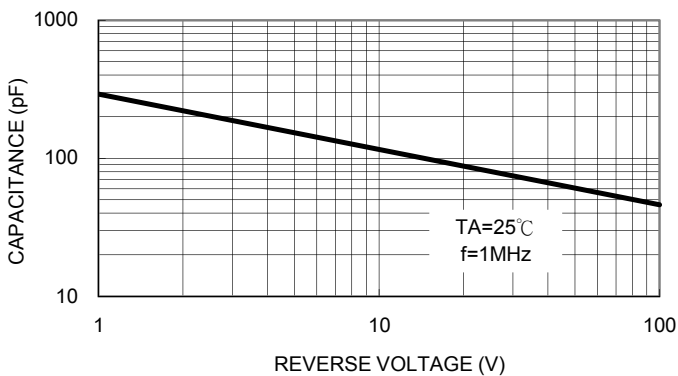


FIG. 5 TYPICAL JUNCTION CAPACITANCE



Package	Packing	Box Size LxWxH(mm)	Quantity(pcs/box)	Carton Size LxWxH(mm)	Quantity(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