



VOLTAGE RANGE

35 to 200 Volts

CURRENT

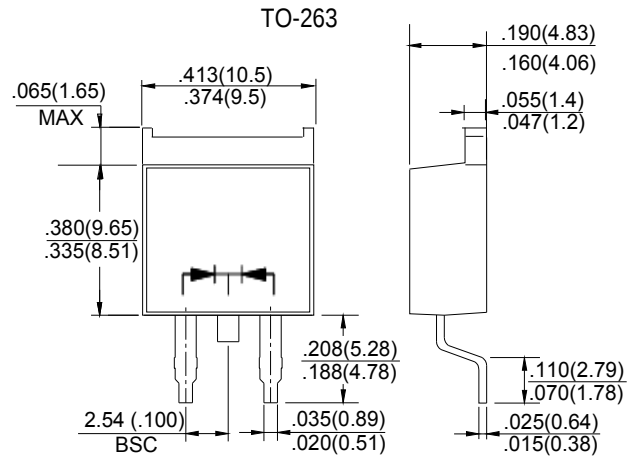
20.0 Ampere

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
- * Weight: 1.98 grams



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%

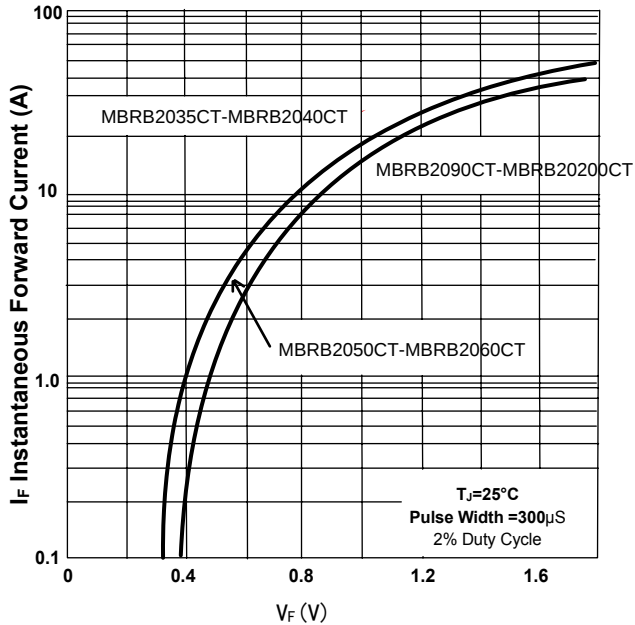
Type Number	Symbol	MBRB 2035 CT	MBRB 2045 CT	MBRB 2050 CT	MBRB 2060 CT	MBRB 2080 CT	MBRB 20100 CT	MBRB 20150 CT	MBRB 20200 CT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	35	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	24	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	35	45	50	60	80	100	150	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	0.75		0.85		0.9		0.95		
Maximum Reverse Current @ Rated VR TA=25 °C TA=125°C	IR	100 15000								uA
Typical Junction Capacitance (Note 1)	Cj	650								pF
Typical Thermal Resistance(Note 2)	RθJA	30								°C/w
Operating and Storage Temperature Range	TJ	-65--+150								°C

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

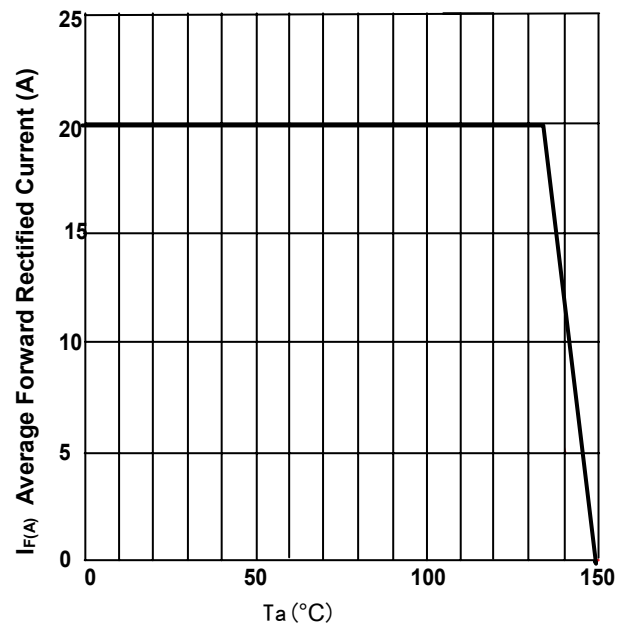
RATINGS AND CHARACTERISTICS CURVES

FIG1-TYPICAL FORWARD CHARACTERISTIC



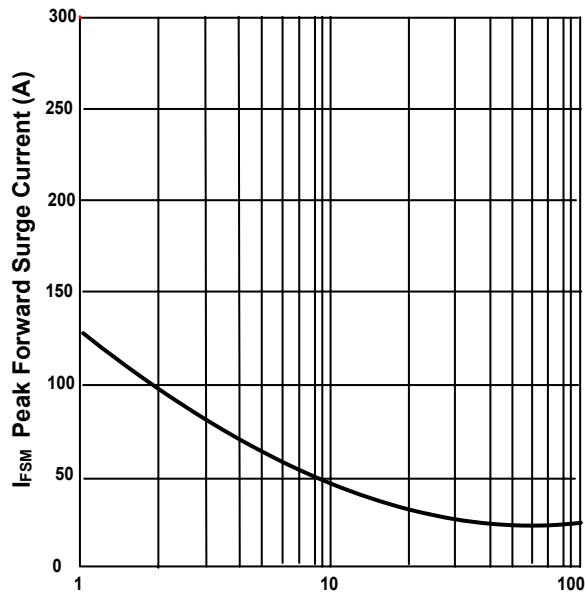
V_F Instantaneous Forward Voltage (V)

FIG2-FORWARD CURRENT DERATING CURVE



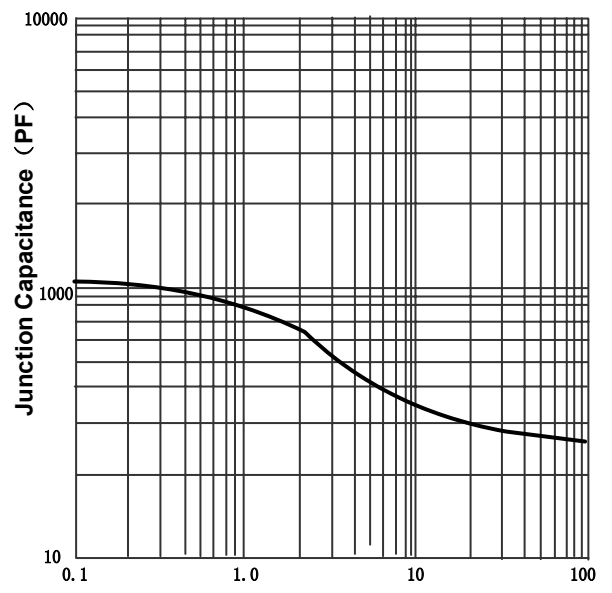
Tamb, ambient temperature (°C)

FIG3-MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

FIG4-TYPICAL REVERSE CHARACTERISTICS



Reverse Voltage (V)

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-263	0.8K	1	0.8K	6	4.8K	13"x16	335x335x40	370x370x440

Package	Packing	Box Size L×W×H(mm)	Quantity(pcs/box)	Carton Size L×W×H(mm)	Quantity(pcs/carton)
TO-263	50pcs/Tube	560×150×50	1000	570×290×180	5000