



Schottky Barrier Rectifier

MBR2045CT THRU MBR20200CT

VOLTAGE RANGE
CURRENT

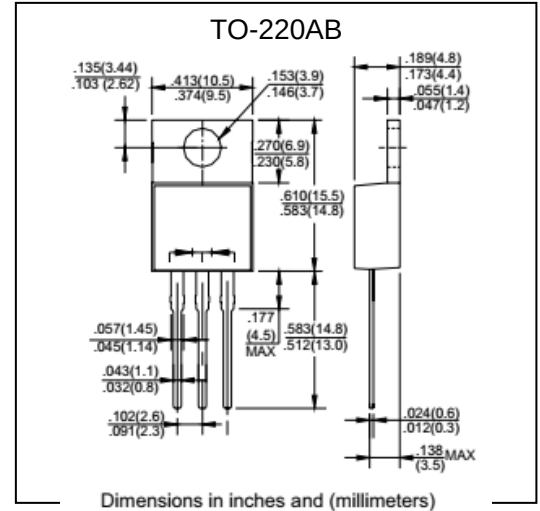
45 to 200 Volts
20 Ampere

FEATURES

- Low Forward Voltage Drop
- Extremely Low Thermal Resistance
- High Current Capability

MECHANICAL DATA

- Case: Molded plastic body
- Polarity: Color band denotes cathode end
- Lead: Solder plated
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	MBR 2045CT	MBR 2060CT	MBR 20100CT	MBR 20150CT	MBR 20200CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	45	60	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	30	42	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	45	60	100	150	200	Volts
Maximum Average Forward Rectified Current	I _(AV)	20					Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150					Amps
Maximum Instantaneous Forward Voltage at 10A	V _F	0.45	0.75	0.85	0.95		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	I _R	0.05		0.02			mA
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

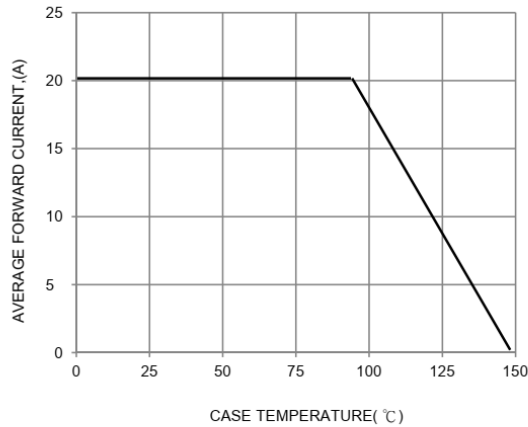


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

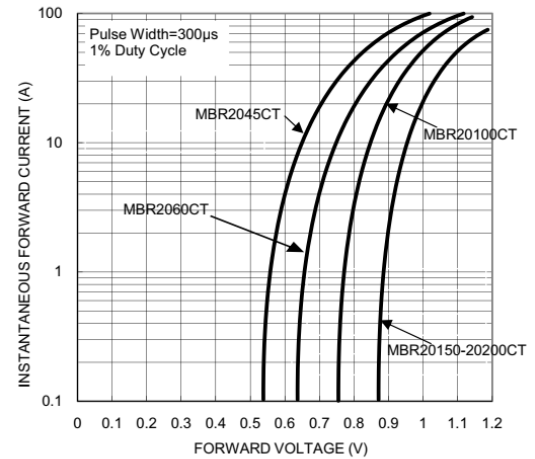


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

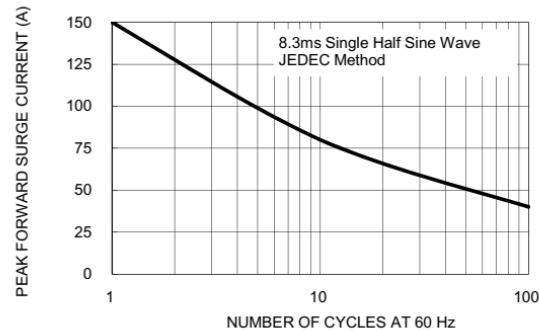


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

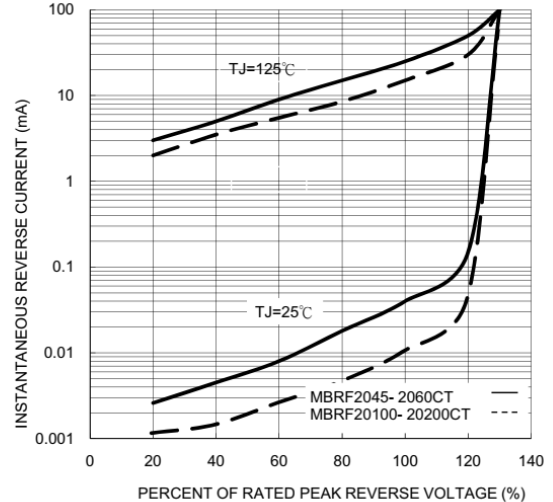


FIG. 5-TYPICAL JUNCTION CAPACITANCE

