

**SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - 20 to 200 Volts  
FORWARD CURRENT - 10.0 Amperes

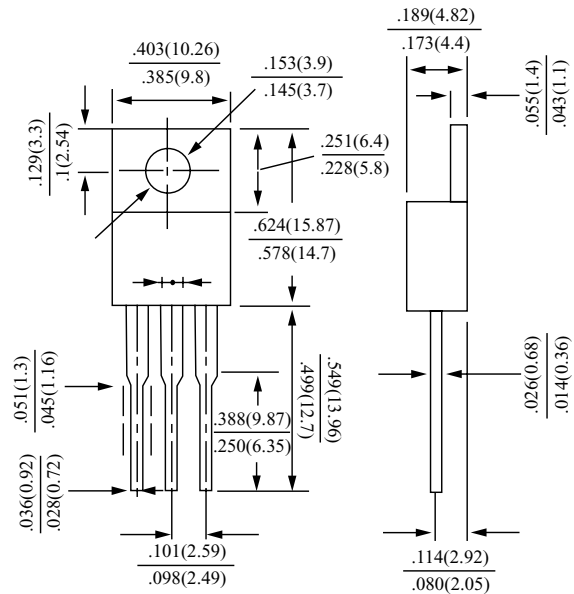
**FEATURES**

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

**MECHANICAL DATA**

- Case : TO-220AB molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.948 grams
- Mounting position : Any

**TO-220AB**



**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%

PARAMETER	SYMBOL	MBR 1020CT	MBR 1040CT	MBR 1050CT	MBR 1060CT	MBR 1080CT	MBR 10100CT	MBR 10150CT	MBR 10200CT	UNIT
Maximum repetitive peak reverse voltage	VRRM	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	VRMS	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	VDC	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current (Per leg)	IF	10.0 5.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	120.0								A
Maximum instantaneous IF=5A@25°C Forward Voltage IF=5A@100°C	VF	0.70 0.60		0.75 0.65		0.85 0.75		0.92 0.80		V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	IR	0.1 10.0								mA
Typical Junction Capacitance	CJ	270		200		150		100		pF
Typical Thermal Resistance	RθJC	3								°C/W
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	TSTG	-55 to +175								°C

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

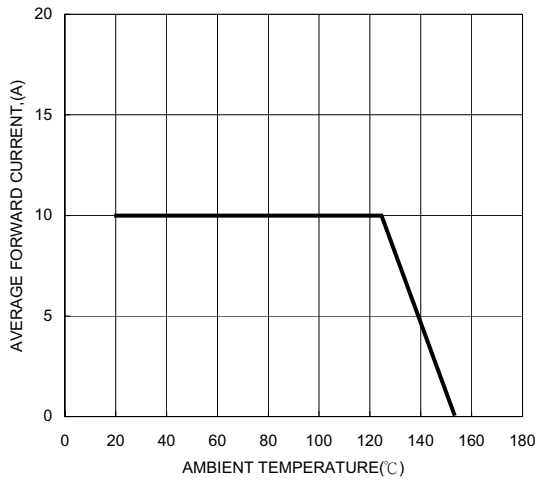


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

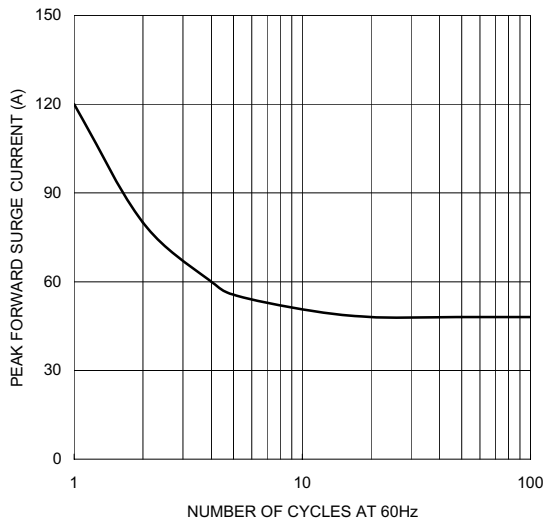


FIG. 5-TYPICAL JUNCTION CAPACITANCE

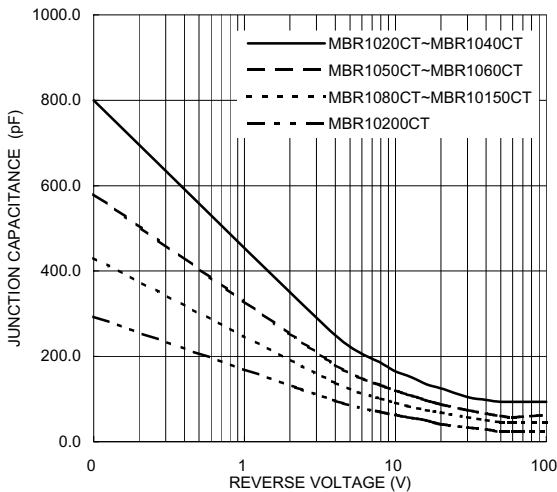


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

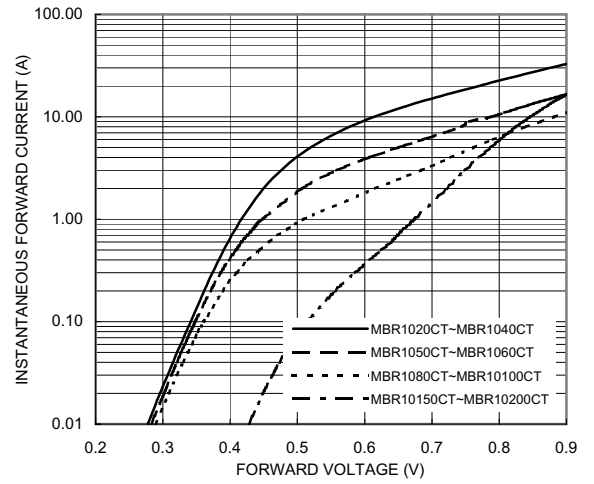


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

