沛倫股份有限公司
Compact Technology Corp.

MBR3060CT thru MBR30200CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **60** to **200** Volts
FORWARD CURRENT - **30.0** Amperes

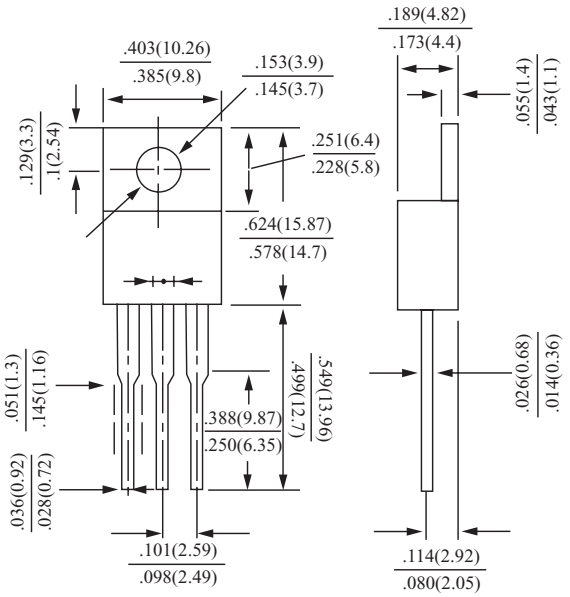
FEATURES

- 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℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR3060 CT	MBR30100 CT	MBR30150 CT	MBR30200 CT	UNIT
Maximum repetitive peak reverse voltage	VRRM	60	100	150	200	V
Maximum RMS voltage	VRMS	42	70	105	140	V
Maximum DC blocking voltage	VDC	60	100	150	200	V
Maximum average forward rectified current Per leg	IF	30.0 15.0				A
Peak forward surge current, 8.3ms single half sine-wave superim posed on rated load	IFSM	200				A
Maximum instantaneous@25°C @125°C	VF	0.69 0.61	0.82 0.68	0.87 0.73		V
Maximum DC Reverse Current @25°C at Rated DC Blocking Voltage @125°C	IR	0.2 20.0				mA
Typical Junction Capacitance	CJ	550	420	330		pF
Typical Thermal Resistance	R θ JC	3.0				°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

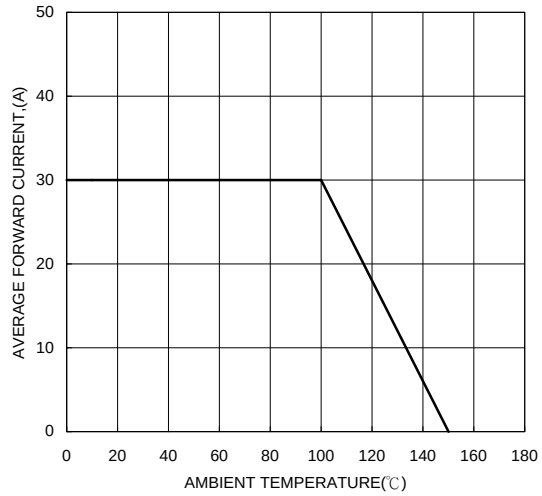


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

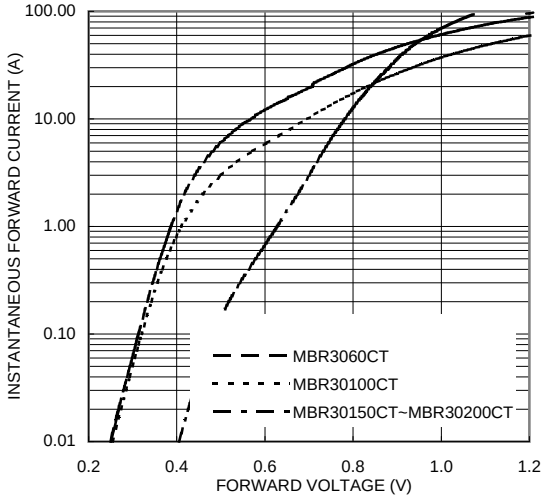


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

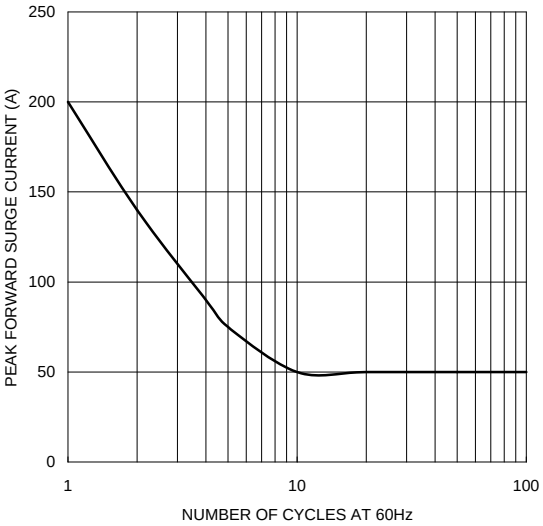


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

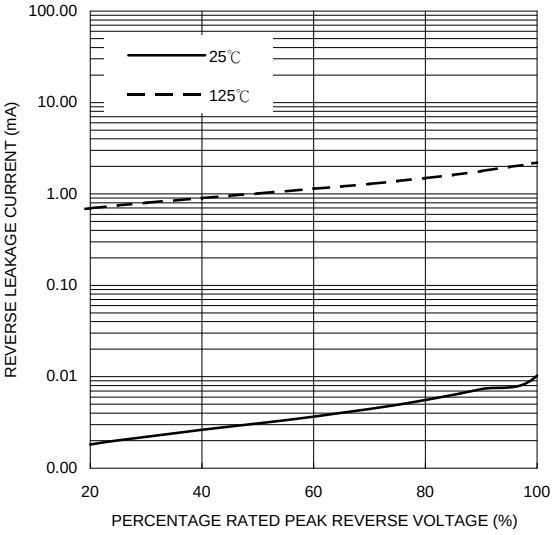


FIG. 5-TYPICAL JUNCTION CAPACITANCE