



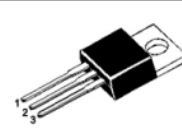
Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 1 5 0A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

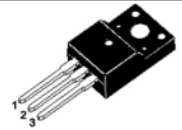
Mechanical Data

- Case: TO-220AB/F, Molded Plastic
- Terminals: Plated Leads Solderable per STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm·kg (10 in·lbs) Max.
- **Lead Free: For RoHS / Lead Free Version**

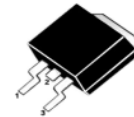
D



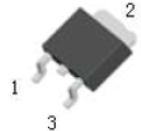
TO-220AB/CT



TO-220F/FCT



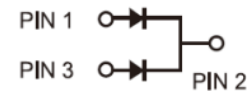
TO-263/DC



TO-252/CS



RoHS
COMPLIANT



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR 1035	MBR 1045	MBR 1050	MBR 1060	MBR 10100	MBR 10150	MBR 10200	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	35	45	50	60	100	150	200	V
RMS Reverse Voltage	VR(RMS)	24	31	35	42	63	100	140	V
Average Rectified Output Current @TL = 100°C (Note 1)	Io	10.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150							A
Forward Voltage @IF = 10A	VFM	0.70		0.80		0.85		1.05	V
Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C	IRM	0.5 50							mA
Typical Junction Capacitance (Note 2)	Cj	350		280		200			pF
Typical Thermal Resistance (Note 1)	RθJA	3.5				2.0			°C/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to +175							°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

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



FIG.1- FORWARD CURRENT DERATING CURVE

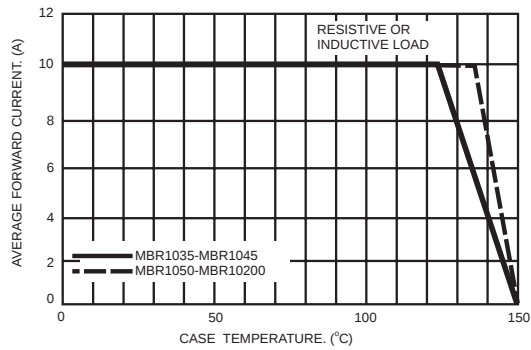


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

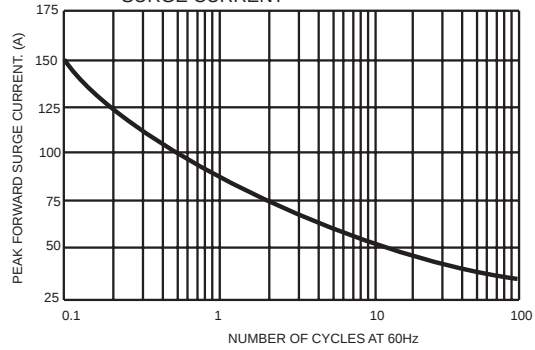


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

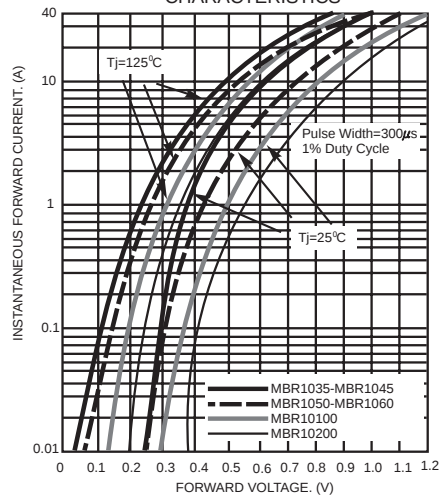


FIG.4- TYPICAL REVERSE CHARACTERISTICS

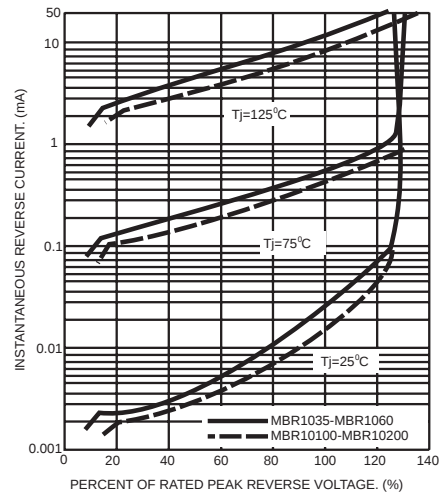


FIG.5- TYPICAL JUNCTION CAPACITANCE

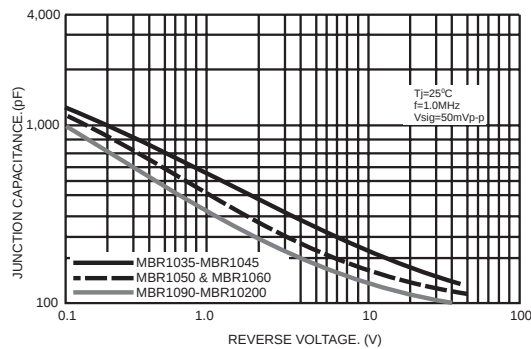
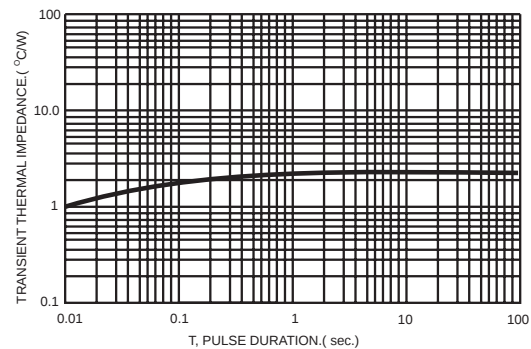


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTIC





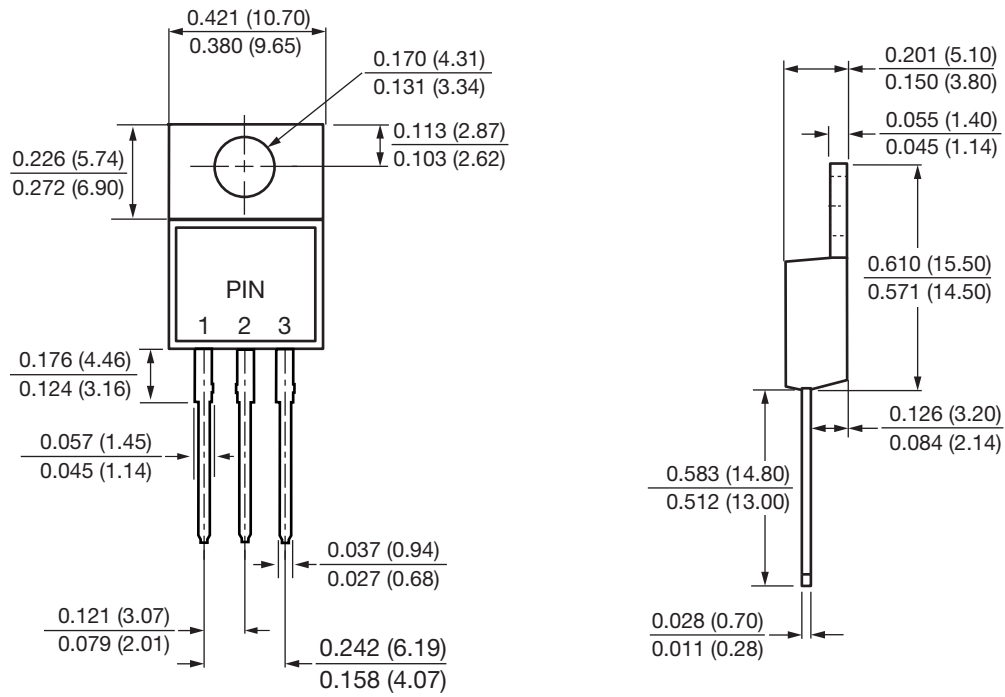
TRR®

MBR1035-10200CTF

10.0A SCHOTTKY BARRIER DIODE

Package Outline

TO-220AB/F



Dimensions in inches and (millimeters)



■ TO-252-2L PACKAGE OUTLINE DIMENSIONS

