



MBR3030FCT THRU MBR30200FCT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 30 to 200 Volts Forward Current - 30.0 Amperes

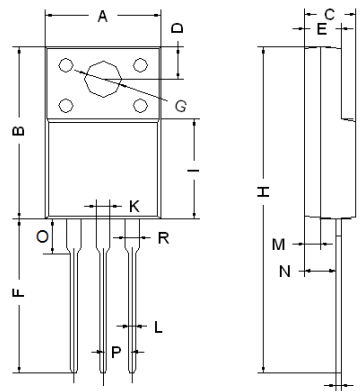
FEATURES

- Low cost.
- Low leakage.
- Low forward voltage drop.
- High current capability.
- Easily cleaned with Alcohol, Isopropanol and Similar solvents.
- The plastic material carries U/L recognition 94V-0

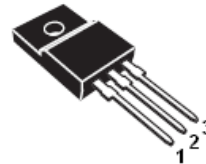
MECHANICAL DATA

- Case: TO-220F
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

TO-220F



TO-220F		
Dim	Min	Max
A	9.80	10.30
B	15.20	15.80
C	4.37	4.77
D	2.90	3.30
E	2.50	2.90
F	12.90	13.50
G	3.10	3.30
H	28.40	29.16
I	8.40	9.10
J	0.35	0.58
L	0.68	0.94
M	1.30	1.50
N	2.40	2.60
O	2.60	3.10
P	2.40	2.60
K/R	1.10	1.32
All Dimensions in mm		



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBR 3030 FCT	MBR 3035 FCT	MBR 3040 FCT	MBR 3045 FCT	MBR 3050 FCT	MBR 3060 FCT	MBR 3080 FCT	MBR 30100 FCT	MBR 30150 FCT	MBR 30200 FCT	UNIT
V_{RRM}	Recurrent Peak Reverse Voltage	30	35	40	45	50	60	80	100	150	200	V
V_{RMS}	RMS Reverse Voltage	21	25	28	32	35	42	56	70	105	140	V
V_{DC}	DC Blocking Voltage	30	35	40	45	50	60	80	100	150	200	V
$I_{F(AV)}$	Average Forward Total Device Rectified Current @ $T_A=100^{\circ}C$	30										A
I_R	Reverse Current $V_R=V_{RRM}, T_A=25^{\circ}C$ $V_R=V_{RRM}, T_A=125^{\circ}C$	0.1					0.1		0.1			mA
		15			25		50					
I_{FSM}	Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	200										A
V_F (Note1)	Forward $I_F=15A$	0.70			0.80		0.85		0.90		0.95	V
$R_{\theta JC}$	Thermal Resistance(Note1)	1.5										$^{\circ}C/W$
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to +150										$^{\circ}C$

Note:1. Thermal resistance from junction to case.



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

FIG.1 – PEAK FORWARD SURGE CURRENT

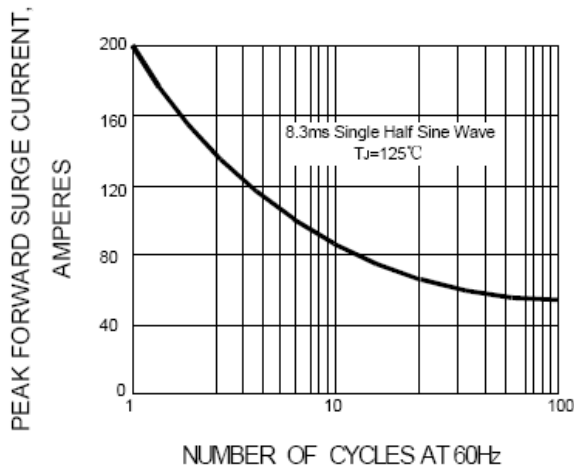


FIG.2 – FORWARD DERATING CURVE

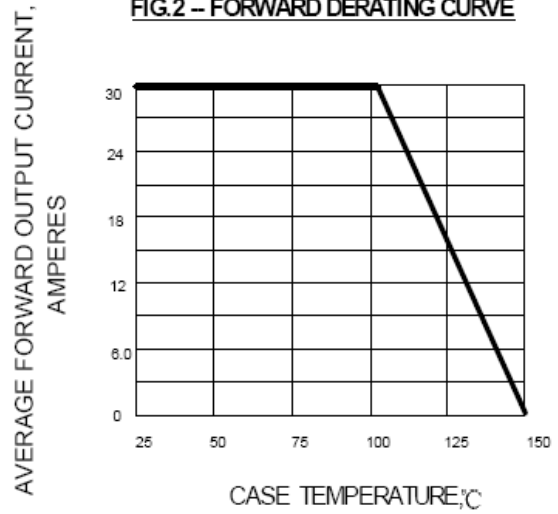


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

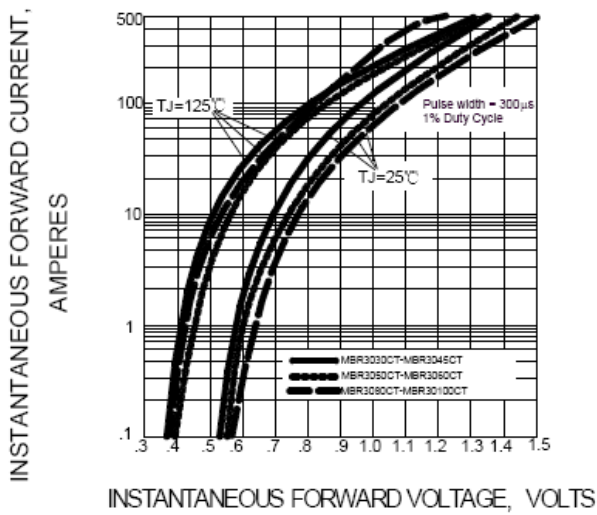
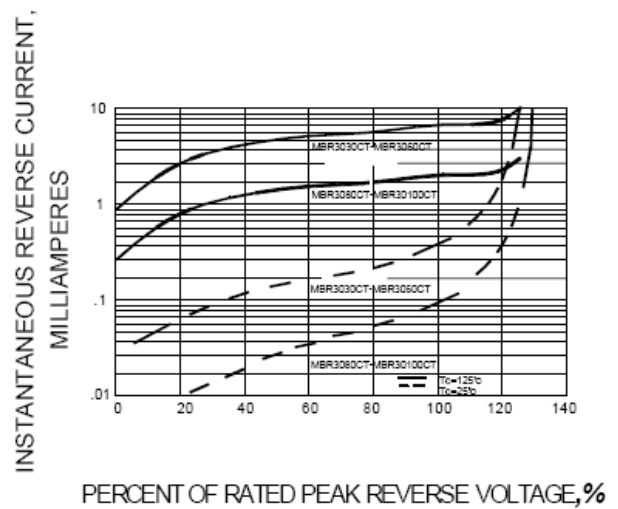


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



单击下面可查看定价，库存，交付和生命周期等信息

[>>ZG\(中鑫半导体\)](#)