

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The proprietary barrier technology allows for reliable operation up to 175°C junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters, freewheeling and polarity protection diodes.

Features.

- *Low Forward Voltage.
- *Low Switching noise.
- *High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- *175°C Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

Flammability Classification 94V-O



- *In compliance with EU RoHs 2002/95/EC directives
- * "G" Green product

The green product is indicated by the date code" XMY" with alphabet "G" XMY

MAXIMUM RATINGS

Characteristic	Symbol	MBRF20200CJ	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectifier Forward Current (per diode) Total Device (Rated V_R), T_C =125 $^{\circ}$ C	I _{F(AV)}	10 20	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150	Α
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +175	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

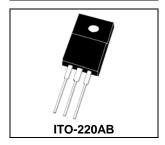
Typical Thermal Resistance junction to case R _{θjc}	5.8	°C/w	
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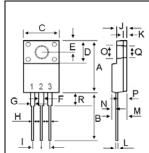
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	MBRF20200CJ	Unit
Maximum Instantaneous Forward Voltage (per diode) ($I_F = 10 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 10 \text{ Amp } T_C = 125^{\circ}C$)	V _F	0.90 0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.5 5	uA mA

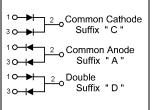
SCHOTTKY BARRIER RECTIFIERS

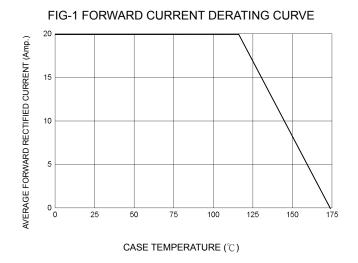
20 AMPERES 200 VOLTS

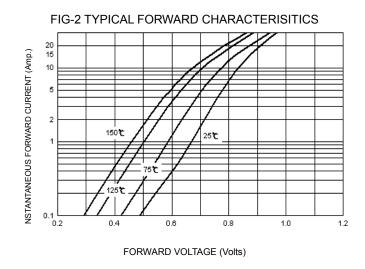


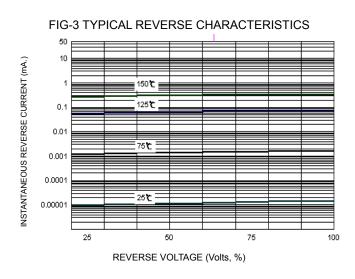


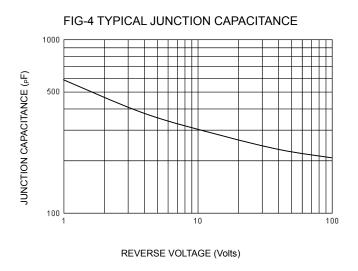
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.90	15.15	
В	13.35	13.55	
С	10.00	10.30	
D	6.55	6.65	
E	2.65	2.75	
F	1.60	1.75	
G	1.20	1.40	
Н	0.55	0.65	
- 1	2.50	2.60	
J	3.00	3.20	
K	1.10	1.20	
L	0.55	0.65	
M	4.40	4.60	
N	1.15	1.25	
0	3.35	3.45	
Р	2.65	2.75	
Q	3.15	3.25	
R	3.60	3.80	

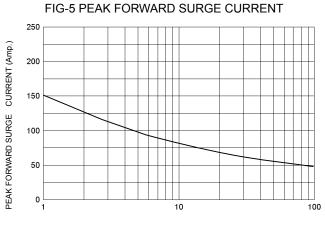












NUMBER OF CYCLES AT 60 Hz



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