

Switchmode Full Plastic Dual Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 150 $^{\circ}$ C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

Mecnanical Data

- *Case :JEDEC ITO-220AB molded plastic body
- *Termals:Plated lead,solderable per MIL-STD-750, Method 2026
- *Polarity:As marked
- *Mounting Torqure: 4-6kg.cm
- *Weight:1.7 g approx.

Plating pb free

MAXIMUM RATINGS

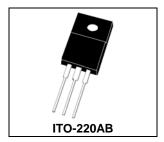
Characteristic	Symbol	MBRF2060C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100℃	I _{F(AV)}	10 20	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200	А
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150	$^{\circ}\!$

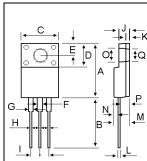
ELECTRICAL CHARACTERISTICS

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Characteristic	Symbol	MBRF2060C	Unit		
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25^{\circ}C$)	V _F	0.7	V		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.1 20	mA		

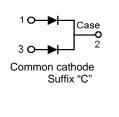
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 60 VOLTS





DIM	MILLIM	MILLIMETERS	
DIIVI	MIN	MAX	
Α	15.05	15.15	
В	13.35	13.45	
С	10.00	10.10	
D	6.55	6.65	
E	2.65	2.75	
F	1.55	1.65	
G	1.20	1.47	
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	
Р	2.65	2.75	
0	3.35	3.45	
Q	3.15	3.25	





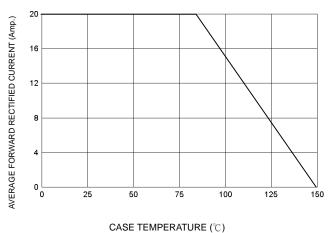
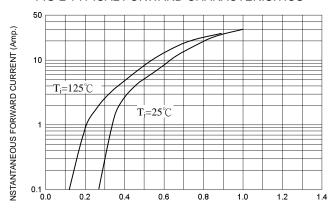
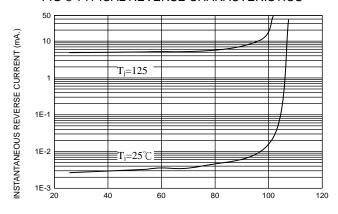


FIG-2 TYPICAL FORWARD CHARACTERISITICS



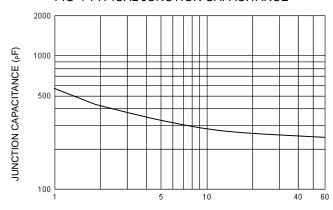
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



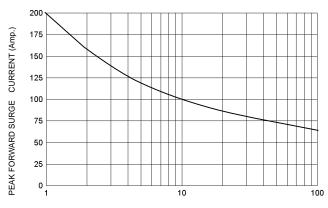
PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz



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