

Switch mode **Full Plastic Dual Schottky Barrier Power 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 applications 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.
- * High Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- *Pb free
- * In compliance with EU RoHs directives





MAXIMUM RATINGS

Characteristic		MBREF10200CN	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectifier Forward Current (per diode) Total Device (Rated V _R)	I _{F(AV)}	5 10	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, 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

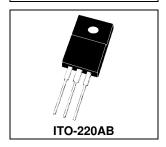
Typical Thermal Resistance junction to case Rejic	3.8	°C/ w
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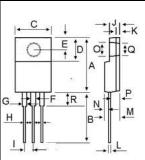
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
$\label{eq:maximum Instantaneous Forward Voltage (per diode)} \begin{tabular}{ll} (I_F = 5.0 Amp T_C = 25 ^\circ C) \\ (I_F = 5.0 Amp T_C = 125 ^\circ C) \end{tabular}$	V _F		0.83 0.68	0.90 	CO//
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)		<i>Y</i>	0.03 0.15	1 	uA mA
RA-D-1024 Ver.B	NNA				

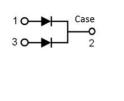
SCHOTTKY BARRIER **RECTIFIERS**

10 AMPERES **200 VOLTS**

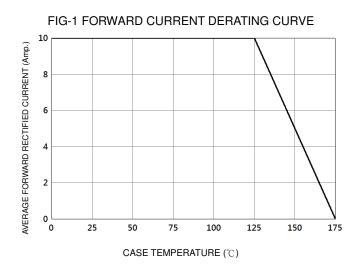


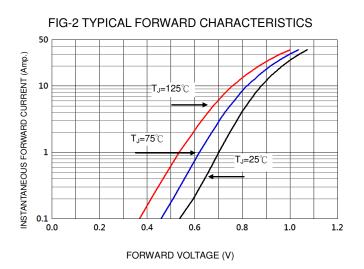


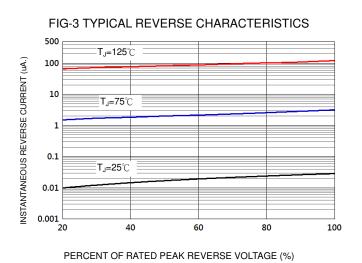
DIM	MILLIMETERS		
ואווט	MIN	MAX	
Α	14.80	16.10	
В	12.65	14.40	
С	9.70	10.36	
D	4.60	6.80	
E	2.50	3.50	
F	0.90	1.45	
G	0.90	1.45	
Н	0.50	0.90	
- 1	2.40	2.70	
J	2.34	3.30	
K	0.55	1.30	
L	0.36	0.80	
M	4.20	4.90	
N	1.10	1.80	
0	2.90	3.50	
Р	2.30	3.15	
Q	2.90	3.50	
R	2.80	4.85	

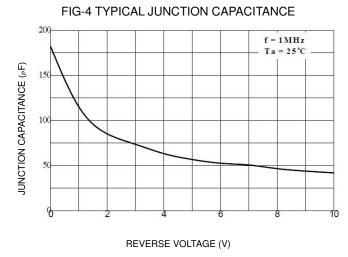


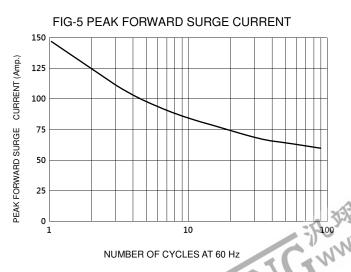












T 60 Hz



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