

Switchmode 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 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° 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

MAXIMUM RATINGS

Characteristic		MBRF10150CK	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
RMS Reverse Voltage	V _{R(RMS)}	105	V
Average Rectifier Forward Current (per diode) Total Device (Rated V_R), T_C =125 $^{\circ}$ C	I _{F(AV)}	5.0 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 halfware, single phase, 60Hz)	I _{FSM}	125	Α
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +175	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

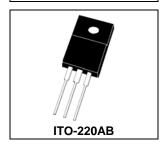
Typical Thermal Resistance junction to case	$R_{\theta jc}$	4.0	°C/w	
---------------------------------------------	-----------------	-----	------	--

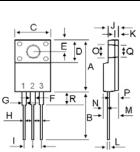
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	MBRF10150CK	Unit
Maximum Instantaneous Forward Voltage ($I_F = 5.0 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 5.0 \text{ Amp } T_C = 125^{\circ}C$)	V _F	0.95 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	0.01 10	mA

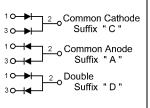
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 150 VOLTS

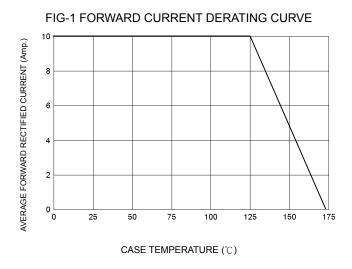


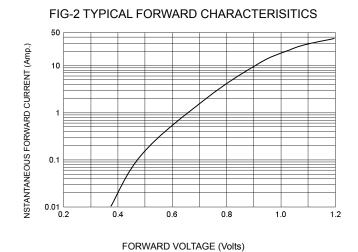


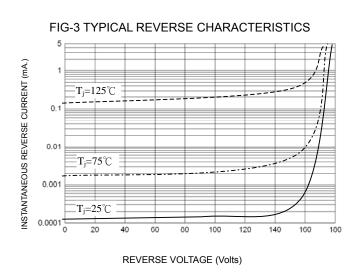
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.90	15.15	
В	13.35	13.55	
С	10.00	10.10	
D	6.55	6.65	
E	2.65	2.75	
F	1.55	1.65	
G	1.15	1.25	
Н	0.55	0.65	
- 1	2.50	2.60	
J	3.00	3.20	
K	1.10	1.20	
L	0.55	0.65	
M	4.40	4.60	
N	1.15	1.25	
0	3.35	3.45	
Р	2.65	2.75	
Q	3.15	3.25	
R	3.60	3.80	

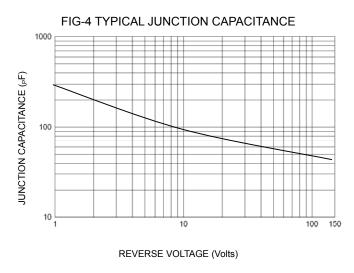


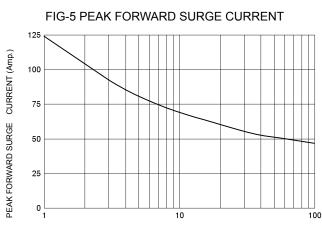
MBRF10150CK











X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Mospec manufacturer:

Other Similar products are found below:

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327
BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W
SBAT54CWT1G SBM30-03-TR-E SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK32A-TP SK33B-TP SK35A-TP SK38B-TP NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ)
ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF