

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

MAXIMUM RATINGS

Characteristic	Symbol	MBR10150CK	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	А
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

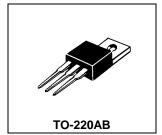
Typical Thermal Resistance junction to case	R _{eic}	4.0	°C/w

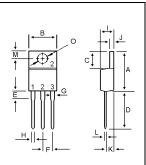
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	MBR10150CK	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

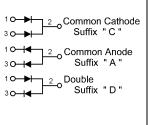
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 150 VOLTS

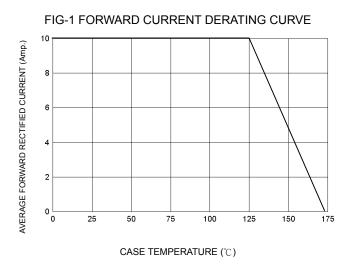


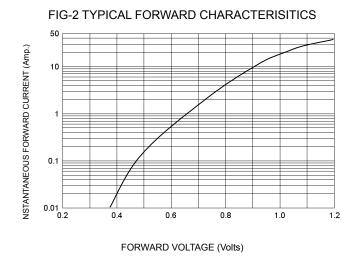


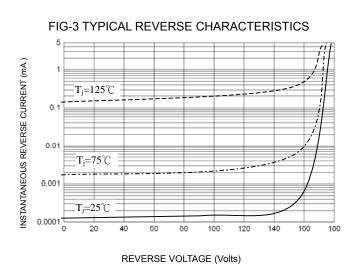
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
С	5.02	6.52	
D	13.06	14.62	
E	3.57	4.07	
F	2.42	2.66	
G	1.12	1.36	
Н	0.72	0.96	
- 1	4.22	4.98	
J	1.14	1.38	
K	2.20	2.98	
L	0.33	0.55	
M	2.48	2.98	
0	3.70	3.90	

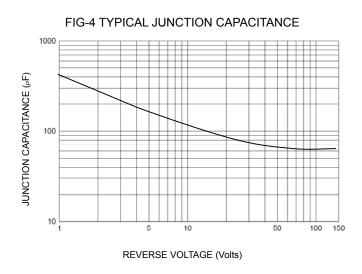


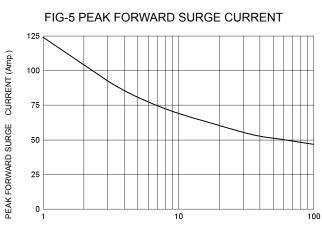
MBR10150CK











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