

SCHOTTKY BARRIER RECTIFIER

MBR10150C?/FC?/DC/CS

RoHS

COMPLIANT

HALOGEN FREE

TO-220AB/CK

TO-220F/FCK



TO-263/DC

TO-252/CS

PN1 O PIN 3 O PIN 2

Primary Characteristic			
Ι _ο	2*5A		
V _{RRM}	150V		
I _{FSM}	190A		
V _F	0.68V		
T _J max	150 ℃		
Assembly code	AG		

FEATURES

- · Low forward voltage
- High current capability
- · High forward surge capability
- Low power losses, High efficiency
- · Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

MECHANICAL DATA

- Case: Molded plastic
- · Polarity: As marked
- Mounting Position: Any
- Molded Plastic: UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum,10s per JESD 22-B106

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	150	V
Working Peak Reverse Voltage	V _{RWM}	150	V
Maximum DC Blocking Voltage	V _{DC}	150	V
Navinum Average Ferrural Destified Current Per Leg		5	•
Maximum Average Forward Rectified Current Total	I _O	10	— A
Peak Forward Surge Current,8.3 ms Single Half Sine-wa	ve I _{FSM}	190	A
Operating Temperature Range	Т」	150	°C
Storage Temperature Range	T _{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)			
TO-220AB,TO-263,TO-252	R _{0 JC}	2	°C/W
TO-220F	~	4	

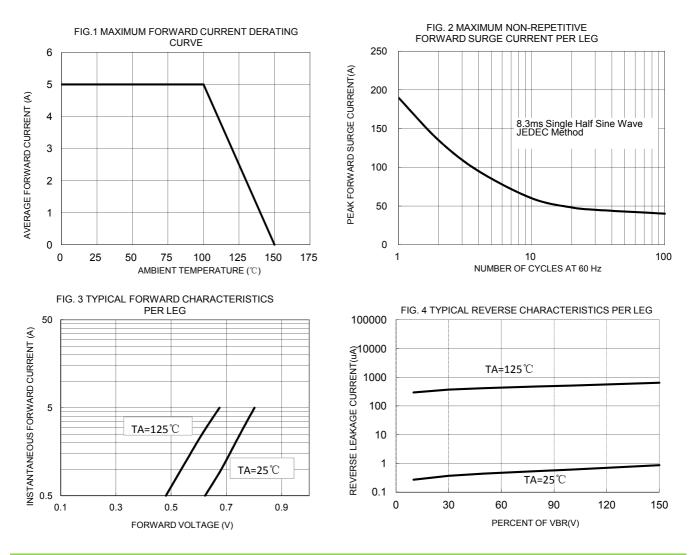
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =2A	TA=25°C		0.73	-	
	TA=125°C		0.59	-	
at I _F =3A	TA=25°C	V _F	0.76	-	V
	TA=125°C		0.63	-	
at I _F =5A	TA=25°C		0.80	0.87	
	TA=125°C		0.68	-	
Maximum Reverse Current at V _R =150V	TA=25°C	1	1	5	μA
	TA=125°C	I _R	0.6	-	mA

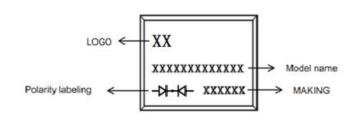
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

MBR10150C?/FC?/DC/CS

RATINGS AND CHARACTERISTIC CURVES



Marking on the body



MAKING:

$X \underline{X X} X \underline{X X}$

 Assembly code (e.g : AB,CD,.....)
Material –Code (H:No halogen A:ordinary)

Week - code (WW:01~52)

Year - code

(Y: Last digit of year & A:2012,B:2013...)

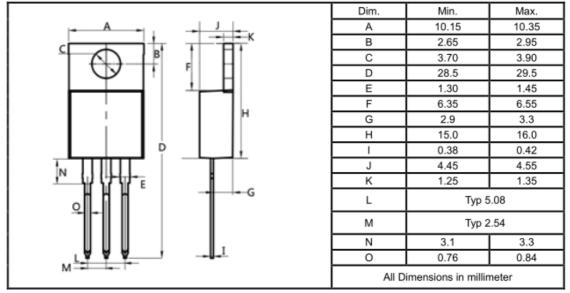
Ordering information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR10150CK	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR10150FCK	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR10150DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR10150DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	800pcs/box 4000pcs/carton
MBR10150CS	TO-252	0.011oz(0.32g)	2500 pcs / reel	2500pcs/box 12500pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

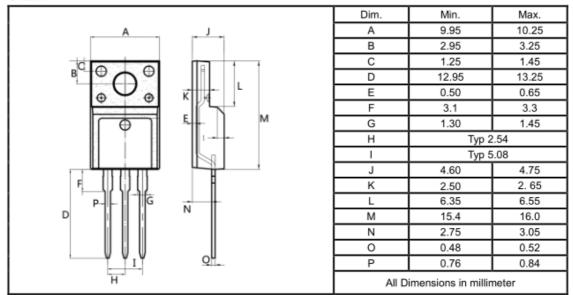


Package Outline Dimensions millimeters

TO-220AB

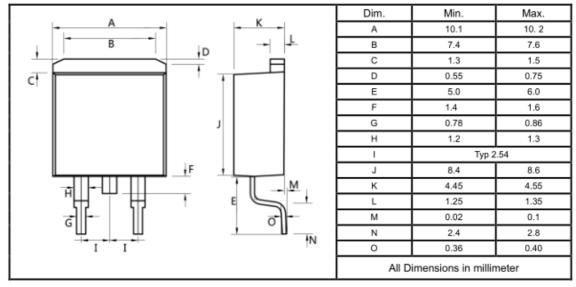


TO-220F

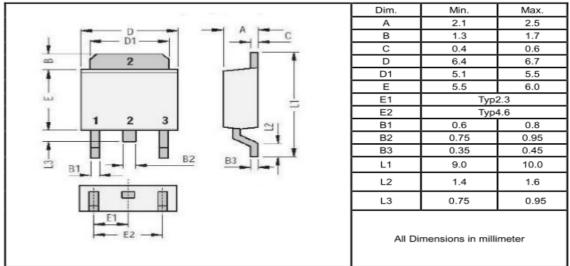




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