

MBR2020C thru MBR2060C



Schottky Barrier Rectifiers



TO-220AB

Primary Characteristics						
I _F	20	Α				
V_{RRM}	20~60	V				
I _{FSM}	150	Α				
I _F =10 @ V _F	0.7, 0.8	V				
T _J max	125	°C				

Features

- · Guard Ring for Over Voltage Protection
- · High Forward Surge Capability
- High Frequency Operation

Mechanical Data

· Case: TO-220AB

• Case Material : Molded Plastic, UL Flammability Classification Rating 94V-0

• Terminals : Solder Plated, Solderable per

MIL-STD-750, Method 2026

Ordering Information						
Part No.	Remark	Package	Packing			
MBR20xxC	RoHS Compliant	TO-220AB	50 / Tube			
MBR20xxC-H	Halogen Free	10-220AB	50 / Tube			

	1	oted)						
Parameter	Symbol	MBR202 0C	MBR203 0C	MBR204 0C	MBR204 5C	MBR205 0C	MBR206 0C	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	V
Maximum Average Forward Rectified Current (Total) (Per Leg)	I _F	20 10				Α		
Peak Forward Surge Current 8.3ms Single Half Sine- Wave Superimposed on Rated Load	I _{FSM}	150				Α		
Maximum Instantaneous Forward Voltage IF=10A @ 25°C	V _F	0.7 0.8				٧		
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =100°C	I _R	0.2 20					mA	
Typical Thermal Resistance	$R_{\theta JC}$	3					°C/W	
Operating Temperature Range	T _J	-55 to +125					°C	
Storage Temperature Range	T _{STG}	-55 to +150				°C		
Marking Code		MBR202 0C	MBR203 0C	MBR204 0C	MBR204 5C	MBR205 0C	MBR206 0C	



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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

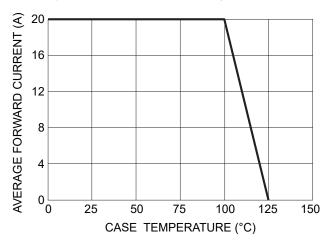


FIG. 2-Typical Forward Characteristics

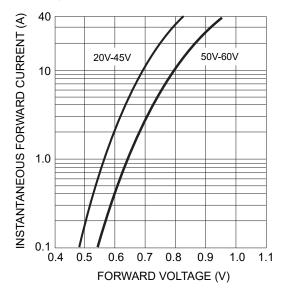


FIG. 3-Maximum Non-Repetitive Forward Surge Current

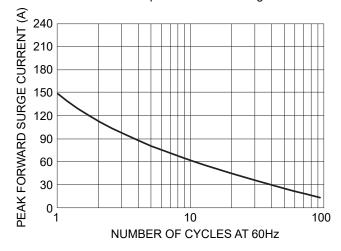
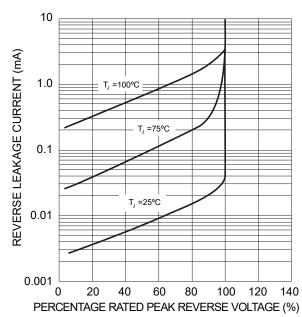


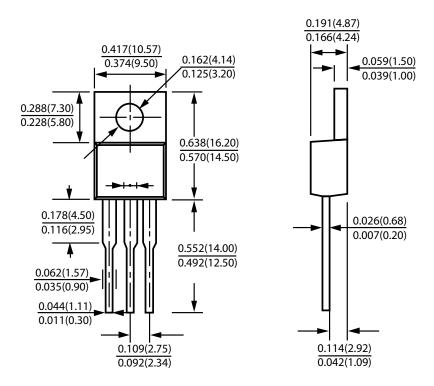
FIG. 4-Typical Reverse Characteristics





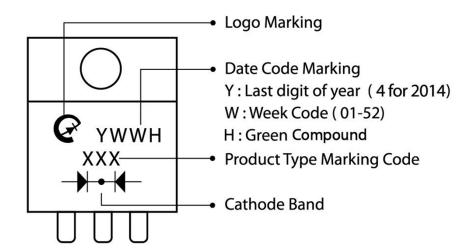
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Package Outline Dimensions



TO-220ABDimensions in inches and (millimeters)

Marking Information





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