

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBR1020F THRU MBR10100F

10 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- Low Power Loss And High Efficiency
- · Low Forward Voltage, High Current Capability
- Marking: type number
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Operating Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

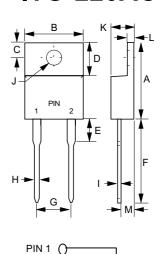
MCC	Maximum Maximum		Maximum
Catalog	Recurrent	RMS	DC
Number	Peak Reverse	Voltage	Blocking
	Voltage		Voltage
MBR1020F	20V	14V	20V
MBR1030F	30V	21V	30V
MBR1040F	40V	26V	40V
MBR1050F	50V	35V	50V
MBR1060F	60V	42V	60V
MBR1080F	80V	56V	80V
MBR1090F	90V	63V	90V
MBR10100F	100V	80V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	10 A	T _C = 100°C	
Current				
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine	
Current				
Maximum				
Instantaneous				
Forward Voltage			T _J = 25°C	
1020F-1040F	V_{F}	.55V	$I_{FM} = 10A;$	
1050F-1060F		.75V		
1080F-10100F		.85V		
Maximum DC				
Reverse Current At				
Rated DC Blocking				
Voltage	I_R	0.5mA	$T_{\rm C} = 25^{\circ}{\rm C}$ $T_{\rm C} = 100^{\circ}{\rm C}$	
		50mA	$T_{\rm C} = 100^{\circ}{\rm C}$	
			I	

Notes:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

ITO-220AC



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX		
Α	.583	.606	14.80	15.40		
В		.406		10.30		
С	.100	.112	2.55	2.85		
D	.248	.272	6.30	6.90		
Е		.161		4.10		
F	.512	.543	13.00	13.80		
G	.200		5.10			
Н		.035		0.90		
- 1		.032		0.80		
J	.118	.134	3.00	3.40	Ø	
K		.189		4.80		
٦		.123		3.10		
М	.098	.114	2.50	2.90		

PIN 2 ()-



MBR1020F thru MBR10100F

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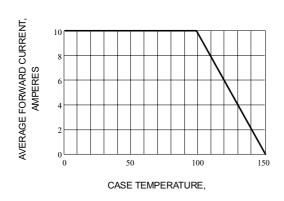


Fig. 1-FORWARD CURRENT DERATING CURVE

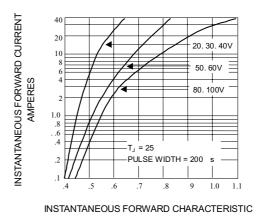


Fig. 2-TYPICAL INSTNATANEOUS FORWARD CHARACTERISTIC

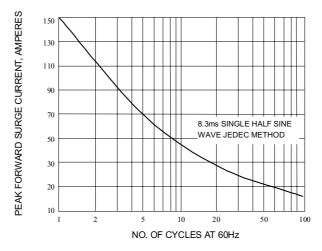


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

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