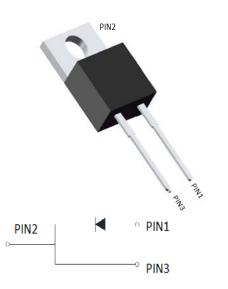
MBR1020 THRU MBR1060



Schottky Diodes

Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

• Package: TO-220AC

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR1020	MBR1035	MBR1040	MBR1045	MBR1050	MBR1060
Device marking code			MBR1020	MBR1035	MBR1040	MBR1045	MBR1050	MBR1060
Repetitive Peak Reverse Voltage	VRRM	V	20	35	40	45	50	60
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	IO	А	10					
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave, 1 cycle, Ta=25℃	IFSM	А	150					
Current Squared Time @1ms≤t<8.3ms Tj=25℃,	l ² t	A ² s	94					
Storage Temperature	T _{stg}	°C	-55 ~ +150					
Junction Temperature	Tj	°C	-55 ~ +125 -55 ~ +150			- +150		

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1020	MBR1035	MBR1040	MBR1045	MBR1050	MBR1060
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=10.0A	0.55 0.75				75	
Maximum DC reverse current	IRRM1		VRM=VRRM T _a =25℃	0.2					
at rated DC blocking voltage per diode	IRRM2	mA	VRM=VRRM Ta=100°C 50						



MBR1020 THRU MBR1060

■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PAR	AMETER	SYMBOL	UNIT	MBR1020	MBR1035	MBR1040	MBR1045	MBR1050	MBR1060
Thermal Resistance	Between junction and case	Rθ _{J-C}	°C /W	2.0					

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR1020 THRU MBR1060	Approximate 1.8	50	1000	5000	Tube	

Characteristics (Typical)

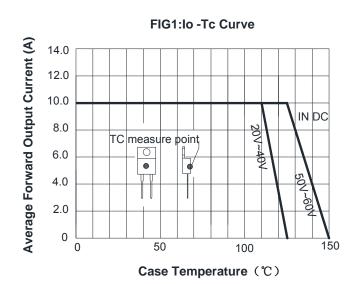


FIG3: Forward Voltage

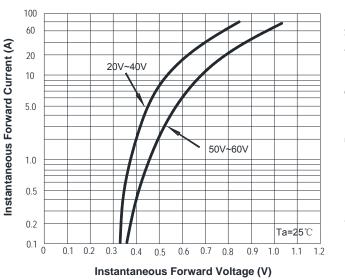


FIG2:Surge Forward Current Capability

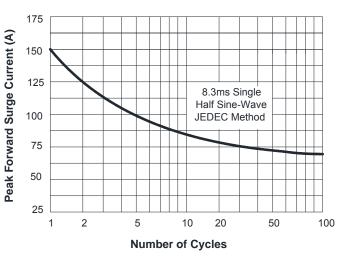
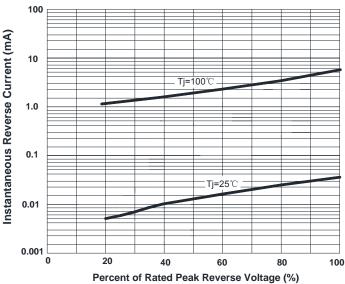
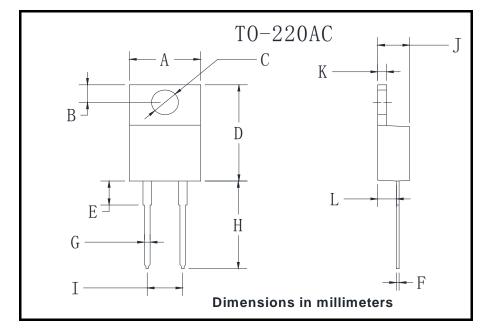


FIG.4: Typical Reverse Characteristics



Outline Dimensions



TO-220AC						
Dim	Min	Max				
А	9.5	10.9				
В	2.22	3.27				
С	3.34	4.31				
D	14.5	15.5				
E	3.16	4.46				
F	0.28	0.64				
G	0.68	0.94				
Н	13.06	14.62				
I	4.55	5.60				
J	4.04	5.1				
К	1.14	1.4				
L	2.14	3.19				

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