

Pb

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MBRX120LF

Features

- High Surge Capability
- Super Low Forward Voltage Drop
- Low Profile Package
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

Mechanical Data

- Packaging: JEDEC SOD-123
- Marking Code: F02
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Parameter	Rating	Unit	
VR(RMS)	Maximum RMS Voltage	14	V	
V_{RRM}	Repetitive Reverse Voltage	20		
I _{F(AV}	Average Forward Current	1	Α	
I _{FSM}	Surge Forward Current at 8.3ms	12	Α	
RthJa	Typical Thermal Resistance ⁽¹⁾	60	°C/W	
RthJa	Typical Thermal Resistance ⁽²⁾	180	°C/W	
Pd	Power Dissipation (1)	1.67	W	
Pd	Power Dissipation (2)	556	mW	
T _{STG&J}	Junction&Storage Temperature	-65 to +125	$^{\circ}$	

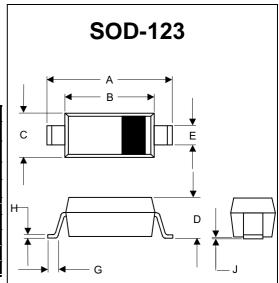
Electrical Characteristics @ 25°C Unless Otherwise Specified

Cumbal	Davameter	Min	Tirm	Max	l lmito
Symbol	Parameter	Min	Тур	Max	Units
V_{F}	Forward Voltage @0.1A @0.7A @1A		0.2 0.3 0.32	0.36	٧
I _R	Leakage Current @VR=5V @VR=20V		0.26	1	mA
Ст	Typical Junction Capacitance @f=1.0MHz,Vr=10V		75		PF

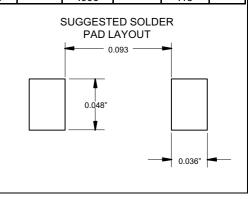
Note

- 1. Part mounted on 50.8mm X 50.8mm GETEK board with 25.4mm X 25.4mm copper pad. $T_A = 25$ °C.
- 2. Part mounted on FR-4 board with 1.8mm X 2.5mm copper pads. TA = 25° C.

Low Forward Volatge Drop Schottky Barrier Diodes



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Е	.012	.031	0.30	.78		
G	.006		0.15			
Н		.01		.25		
۲		.006		.15		





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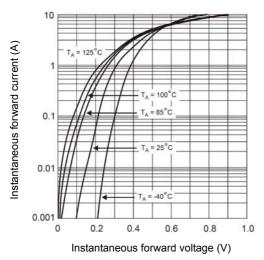


Fig.1 Typical forward characteristics

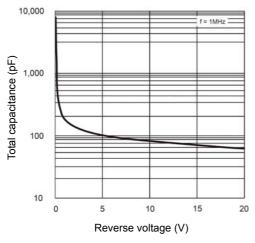


Fig.3 Typical total capacitance

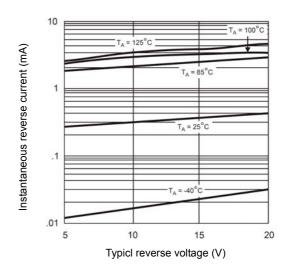


Fig.2 Typical reverse characteristics



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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