Technical Data Data Sheet N0716, Rev. A **Green Products**

MBR130HW SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features:

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material —UL Recognition Flammability Classification 94V-O
- Green Products in Compliance with the ROHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

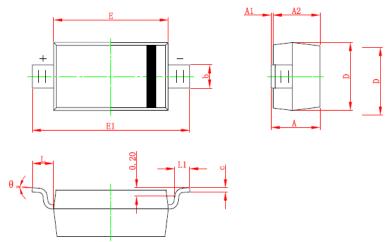
Mechanical Data:

Case: SOD-123, Molded Plastic

• Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.01 grams(approx)

Mechanical Dimensions: In mm / Inches



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
С	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

SOD-123(CJ)

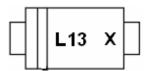
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

[•] FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •

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Marking Diagram:



Where X is Date Code

L13 = Part Name

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MBR130HW	SOD-123(Pb-Free)	3000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	MBR130HW	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	٧
Forward Continuous Current (Note 1)	IF	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	25	А
Power Dissipation (Note 1)	Pd	450	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R sja	222	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +125	℃

Electrical Characteristics @Tx=25°C unless otherwise specified

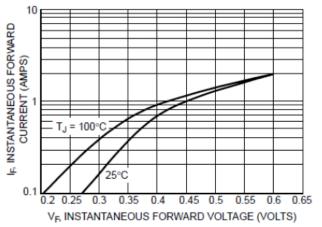
Characteristic	Symbol	MBR130HW	Unit
Forward Voltage Drop @IF = 1.0	A VFM	0.45	٧
Peak Reverse Leakage Current @ DC Blocking Voltage	IRM	0.4	mA
Typical Junction Capacitance (VR = 4V DC, f = 1MHz)	Cu	50	рF

Note: 1. Valid provided that terminals are kept at ambient temperature.

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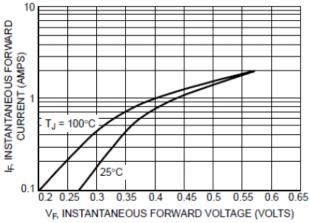
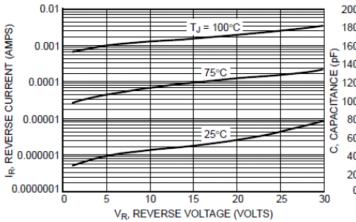


Figure 1. Maximum Forward Voltage

Figure 2. Typical Forward Voltage



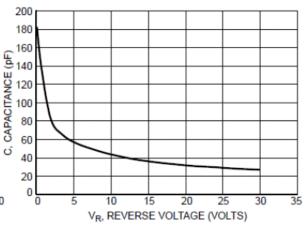


Figure 3. Typical Reverse Current

Figure 4. Typical Capacitance

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