MBR130HW



Technical Data Green Products Data Sheet N0716, Rev. A MBR130HW SURFACE MOUNT SCHOTTKY BARRIER DIODE

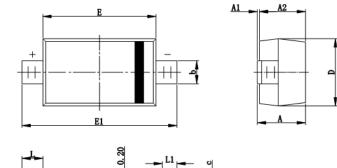
Features:

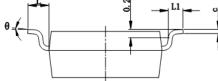
- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material —UL Recognition Flammability Classification 94V-O
- Green Products in Compliance with the ROHS Directive
- This is a Pb Free Device
- All SMC parts 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 Band
- Weight: 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)

- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •

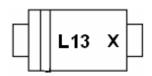


MBR130HW

Technical Data Data Sheet N0716, Rev. A

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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.

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	MBR130HW	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
Forward Continuous Current(Note1)	I _F	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	25	А
Power Dissipation(Note1)	P _D	450	mW
Typical Thermal Resistance, Junction to Ambient Air(Note1)	R _{θJA}	222	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	Тур.	Max.	Unit
Forward Voltage Drop	@I _F =1.0A	V_{FM}	0.44	0.45	V
Peak Reverse Leakage Current @DC Blocking Voltage		I _{RM}	0.01	0.4	mA
Junction Capacitance(VR=4V DC, f=1MHz)		CJ	50	-	pF

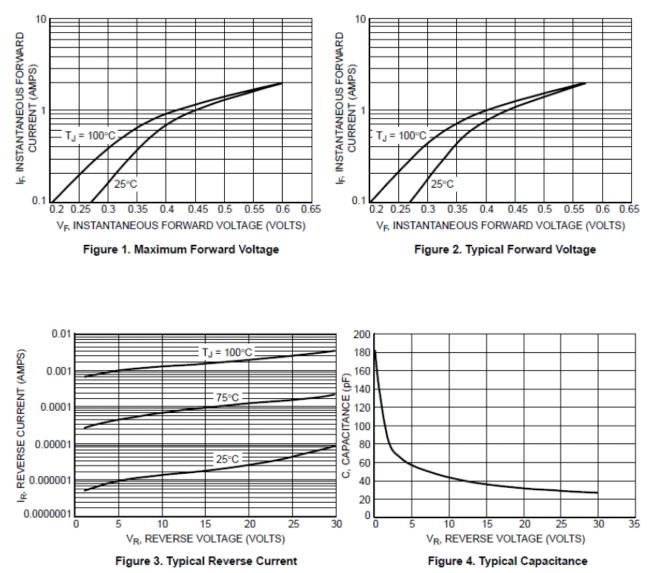
Note: 1. Valid provided that terminals are kept at ambient temperature.

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





Technical Data Data Sheet N0716, Rev. A

MBR130HW

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