

## MBR260HW SURFACE MOUNT SCHOTTKY BARRIER DIODE



### Features

- 125°C T<sub>J</sub> operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Terminals finish: 100% Pure Tin
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

### Circuit Diagram



### 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)
- Marking code: L26

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	60	V
Average Rectified Forward Current (At Rated V <sub>R</sub> , T <sub>L</sub> = 55° C)	I <sub>O</sub>	2	A
Forward Voltage @I <sub>F</sub> = 1A, T <sub>A</sub> = 25°C @I <sub>F</sub> = 2A, T <sub>A</sub> = 25°C	V <sub>FM</sub>	0.52 0.66	V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	50	μA
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Half-wave, Single Phase, 60 Hz)	I <sub>FSM</sub>	30	A
Maximum Junction Capacitance (Note 1)	C <sub>J</sub>	100	pF
Operating Junction Temperature Range	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Note 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.

**Ratings and Characteristics Curves**

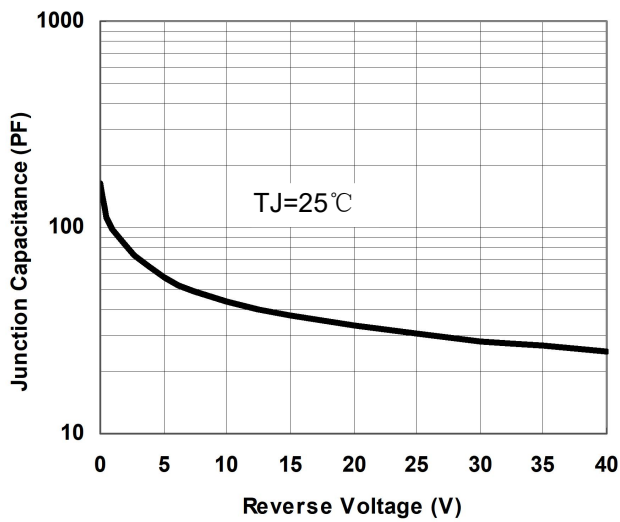


Fig.1-Typical Junction Capacitance

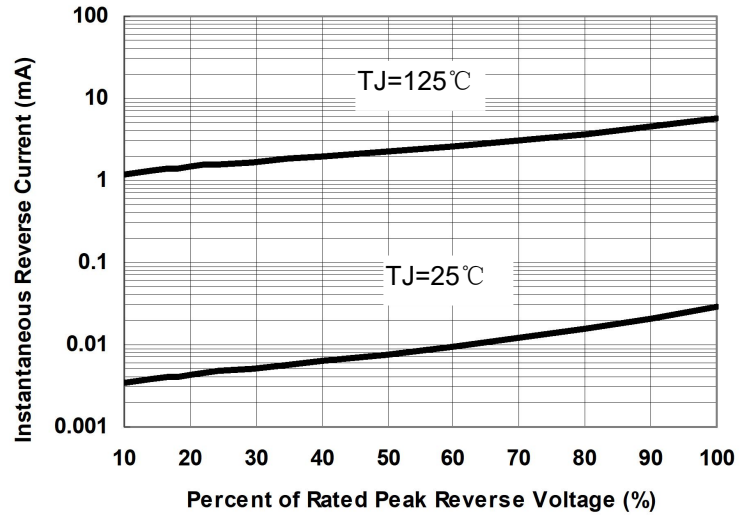


Fig.2-Typical Reverse Characteristics

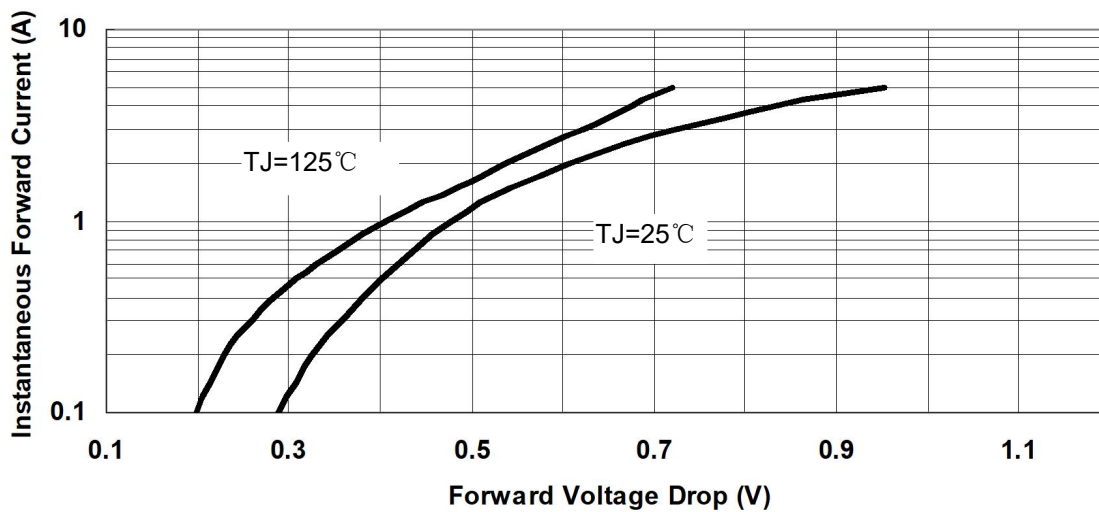
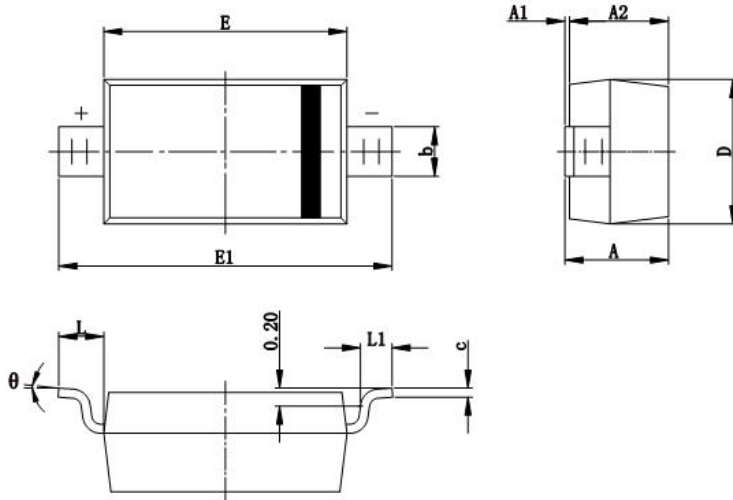


Fig.3-Typical Forward Voltage Drop Characteristics

**Mechanical Dimensions SOD-123**


SYMBOL	Millimeters		Inches	
	MIN.	MAX.	MIN.	MAX.
A	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
c	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
$\theta$	0°	8°	0°	8°

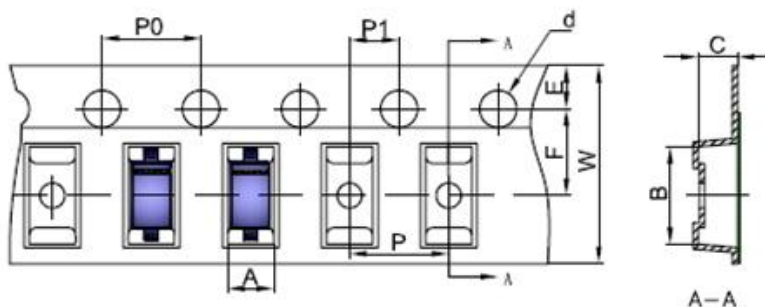
**Ordering Information**

Device	Package	Shipping
MBR260HW	SOD-123 (Pb-Free)	3000pcs / reel
MBR260HWTR	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.

**Marking Diagram**


Where X is Date Code  
 L26 =Marking code

**Carrier Tape Specification SOD-123**


SYMBOL	Millimeters	
	Min.	Max.
A	1.80	1.90
B	3.89	3.99
C	1.52	1.62
d	1.45	1.65
E	1.65	1.85
F	3.40	3.60
P	3.90	4.10
P0	3.90	4.10
P1	1.90	2.10
W	7.90	8.30



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