

Technical Data Data Sheet N1466, Rev.A





MBR230LS 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

Circuit Diagram



Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202,

Method 208

Polarity: Cathode Band

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Reverse Voltage	V _R	30	V
Average Rectified Output Current	I _{F(AV)}	2	А
Forward Voltage @I _F = 0.5A,T _A = 25°C @I _F = 2.0A,T _A = 25°C	V_{FM}	0.3 0.5	V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C	I _{RM}	1.0	mA
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	25	А
Maximum Junction Capacitance (Note 1)	C _j	170	pF
Operating Junction Temperature Range	TJ	-55 to +100	°C
Storage Temperature Range	T _{STG}	-55 to +100	°C
Voltage Rate of Change (rated VR, TJ=25°C)	dv/dt	10000	V/μs
Approximate Weight	wt	0.028	g

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

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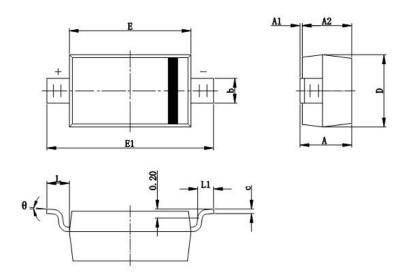


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Mechanical Dimensions SOD-123



OVMDOL	Millimeters				Inches	
SYMBOL	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°		

Ordering Information

Device	Package	Shipping
MBR230LS	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

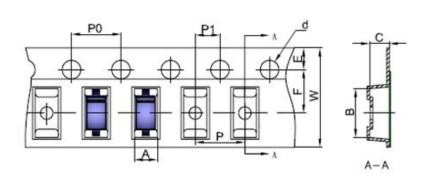


Where X is Date Code

B3N = Part Name

MBR230LS

Carrier Tape Specification SOD-123



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

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