

MBR0520LW-HAF

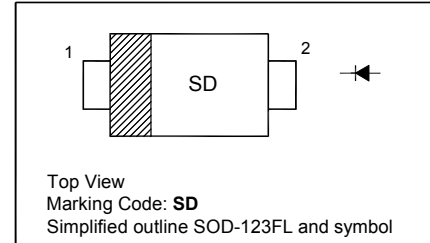
Surface Mount Schottky Barrier Diode

Features

- Very low forward voltage
- High Current Capability
- Halogen and Antimony Free(HAF),RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RRM}	20	V
Working Peak Reverse Voltage	V _{RWM}	20	V
DC Reverse Voltage	V _R	20	V
Average Rectified Forward Current	I _{F(AV)}	0.5	A
Peak Forward Surge Current (8.3 ms Single Half Sine-wave)	I _{FSM}	20	A
Thermal Resistance Junction to Ambient	R _{θJA}	200	°C/W
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	- 55 to + 150	°C

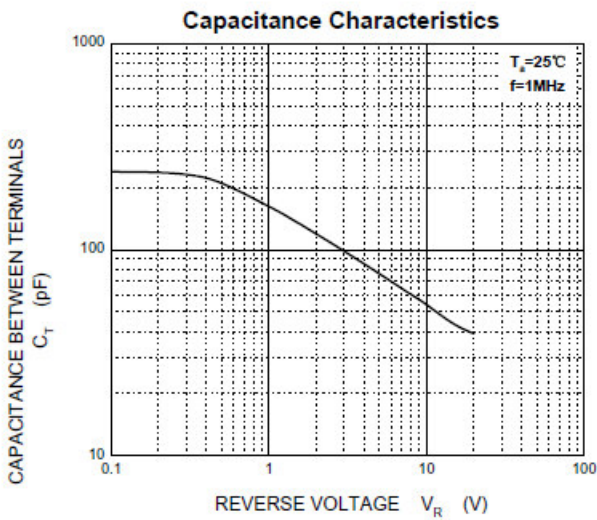
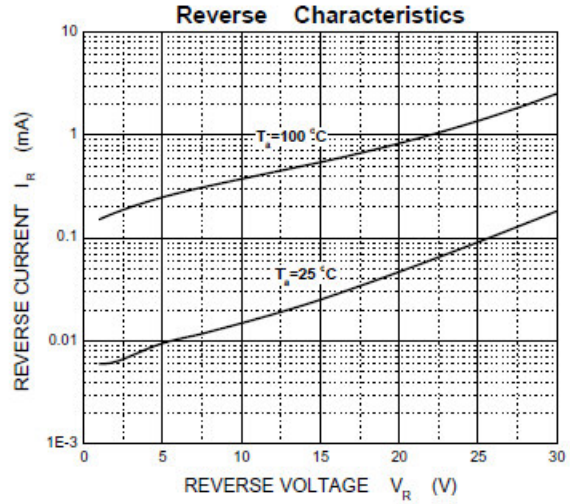
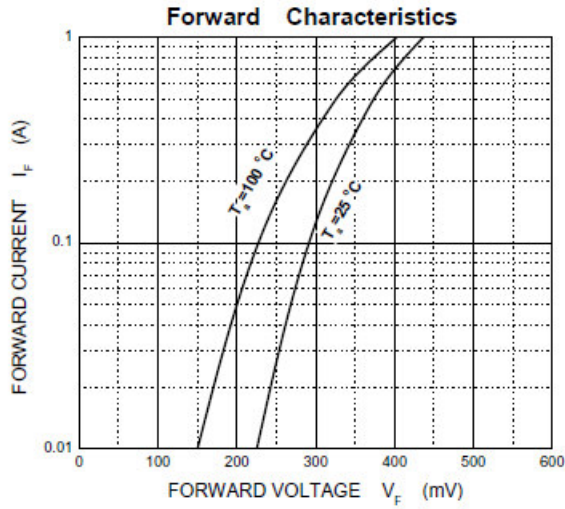
Characteristics at T_a = 25°C

Parameter	Symbol	Max.	Unit
Reverse Breakdown Voltage at I _R = 250 μA	V _{(BR)R}	20	V
Forward Voltage at I _F = 0.1 A at I _F = 0.5 A	V _F	0.33 0.385	V
Reverse Current at V _R = 10 V at V _R = 20 V	I _R	75 250	μA

TOP DYNAMIC



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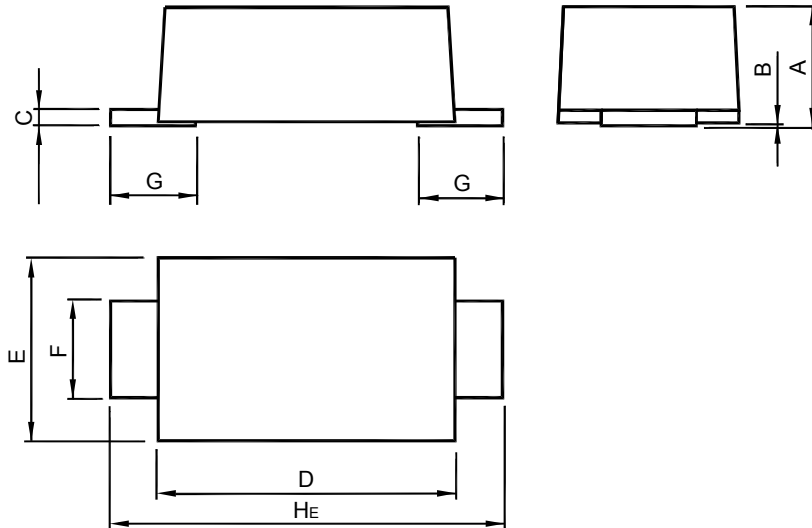


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PACKAGE OUTLINE

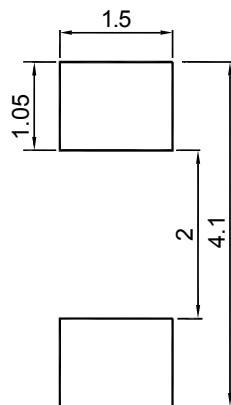
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H _E
mm	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC

