

MBR0520LW

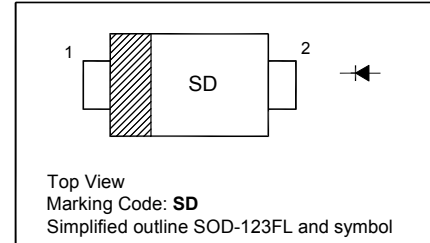
Surface Mount Schottky Barrier Diode

Features

- Very low forward voltage
- High Current Capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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	$R_{\theta JA}$	200	$^\circ\text{C/W}$
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

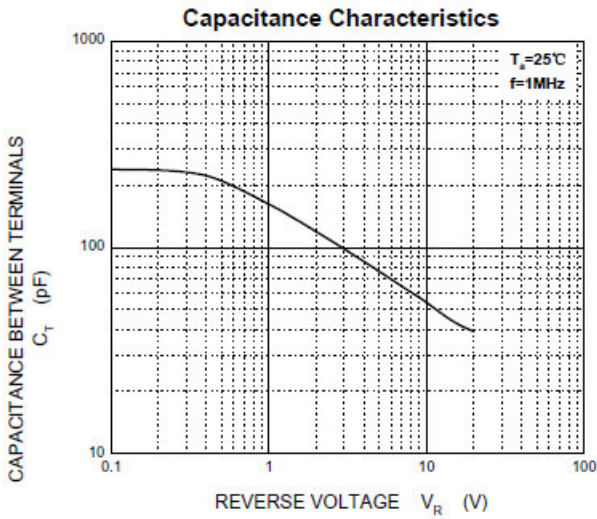
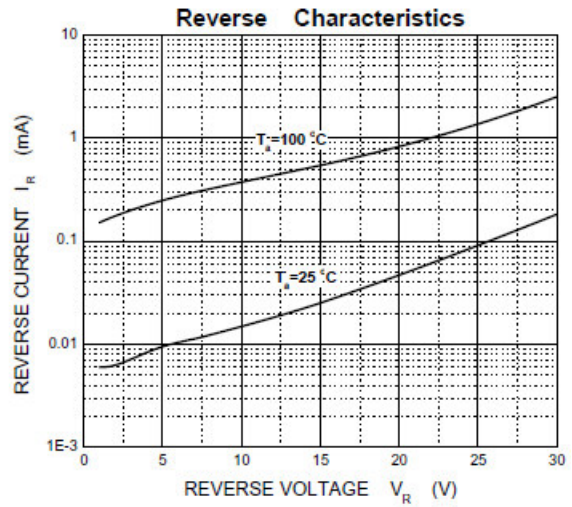
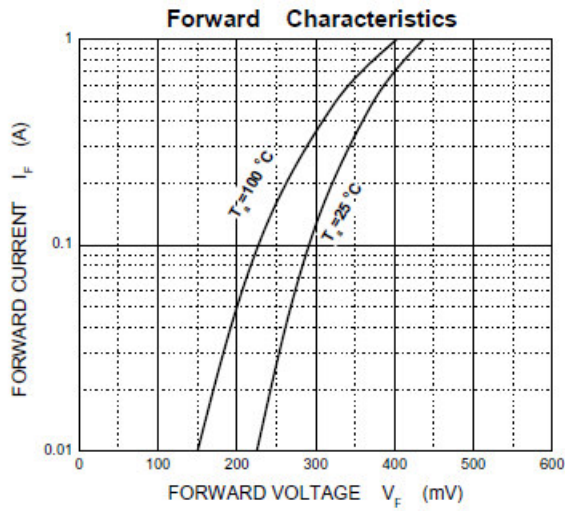
Parameter	Symbol	Max.	Unit
Reverse Breakdown Voltage at $I_R = 250 \mu\text{A}$	$V_{(BR)R}$	20	V
Forward Voltage at $I_F = 0.1 \text{ A}$ at $I_F = 0.5 \text{ A}$	V_F	0.33 0.385	V
Reverse Current at $V_R = 10 \text{ V}$ at $V_R = 20 \text{ V}$	I_R	75 250	μA

TOP DYNAMIC



Dated: 13/07/2015 Rev:

MBR0520LW



TOP DYNAMIC



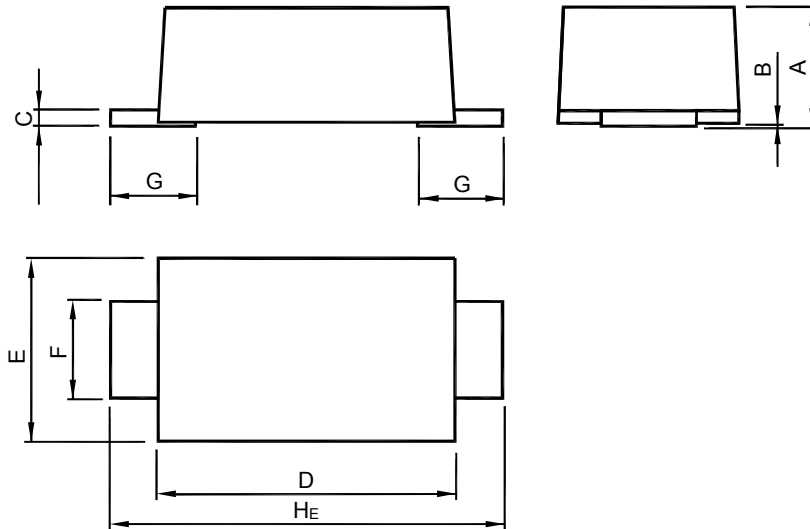
Dated: 13/07/2015 Rev:

MBR0520LW

PACKAGE OUTLINE

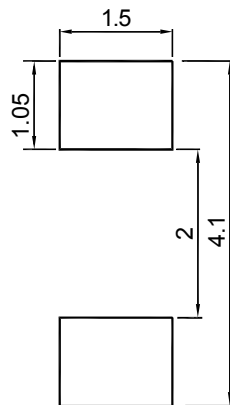
Plastic surface mounted package; 2 leads

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	

TOP DYNAMIC



Dated: 13/07/2015 Rev:

SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000
-----------	---	---------	---------------	-----	---	-------

TOP DYNAMIC



Dated: 13/07/2015 Rev: