

# MBRX120LSF

**Low Forward Volatge Drop  
Schottky Barrier Diodes**

## Features

- High Surge Capability
- Super Low Forward Voltage Drop
- Low Profile Package
- Lead Free Finish/Rohs Compliant(Note1) ("P" Suffix designates Compliant. See ordering information)

## Mechanical Data

- Packaging: SOD-123FL
- Marking Code: L2  
Epoxy meets UL 94 V-0 flammability rating  
Moisture Sensitivity Level 1

## Maximum Ratings

Symbol	Parameter	Rating	Unit
$V_{R(RMS)}$	Maximum RMS Voltage	14	V
$V_{RRM}$	Repetitive Reverse Voltage	20	V
$I_{F(AV)}$	Average Forward Current	1	A
$I_{FSM}$	Surge Forward Current at 8.3ms	50	A
$R_{\theta JL}$	Typical Thermal Resistance Junction to lead	26	°C/W
$T_J$	Operating Junction Temperature	-65 to +125	°C
$T_{STG}$	Storage Temperature	-65 to +125	°C

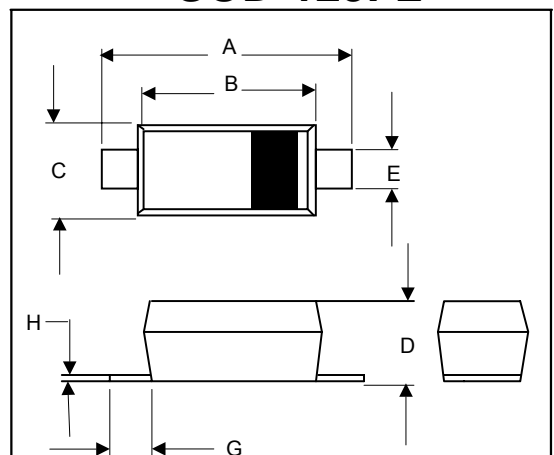
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_F$	Forward Voltage @0.1A	----	0.34	V
	@1A	----	0.45	
	@3A	----	0.65	
$I_R$	Leakage Current @VR=20V	----	0.4	mA

Note

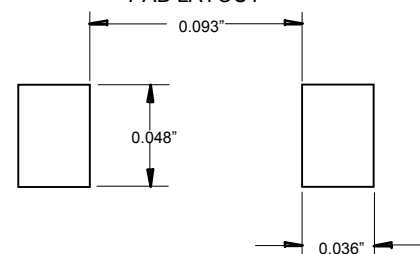
1. Mounted with minimum recommended pad size, FR4 board.

## SOD-123FL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	----	.20	

### SUGGESTED SOLDER PAD LAYOUT



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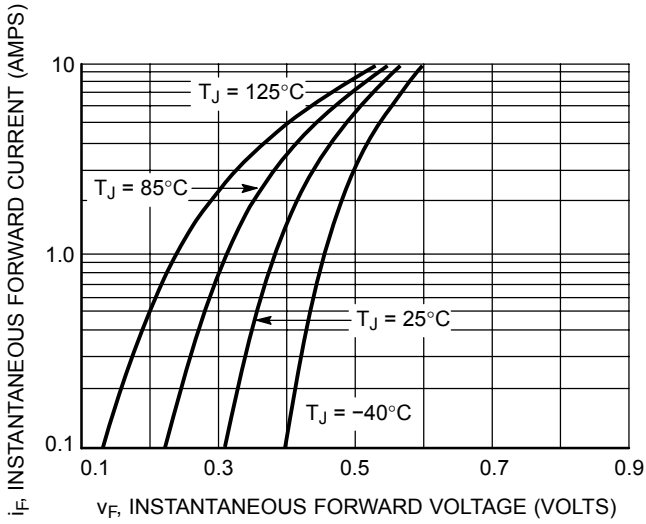


Figure 1. Typical Forward Voltage

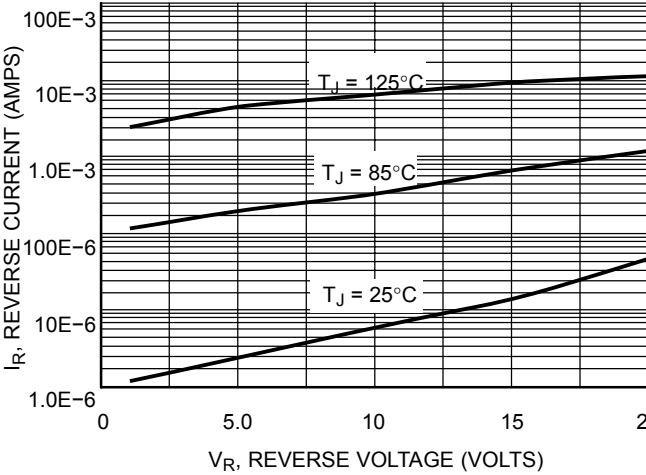


Figure 2. Typical Reverse Current

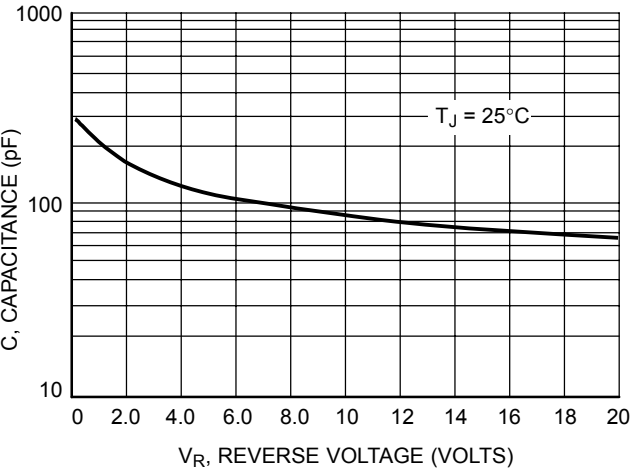


Figure 3. Capacitance