

# MBR130LSF

## 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: L3
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

Symbol	Parameter	Rating	Unit
$V_{R(RMS)}$	Maximum RMS Voltage	21	V
$V_{RRM}$	Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	1	A
$I_{FSM}$	Surge Forward Current at 8.3ms	30	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

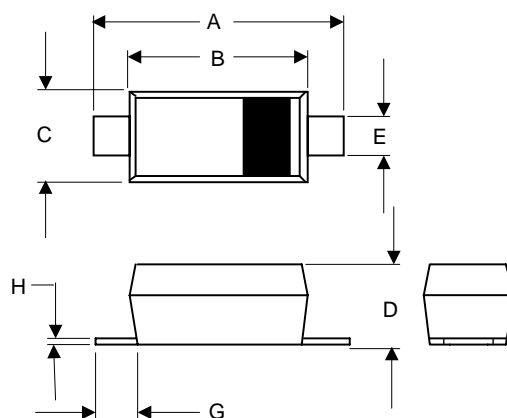
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_F$	Forward Voltage @0.1A @0.7A @1A	----	0.29 0.36 0.38	V
$I_R$	Leakage Current @VR=30V	----	1.0	mA

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

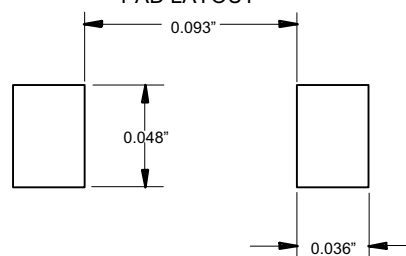
## Low Forward Voltage Drop Schottky Barrier Diodes

## SOD-123FL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.122	2.55	3.10	
C	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

## SUGGESTED SOLDER PAD LAYOUT



# MBR130LSF

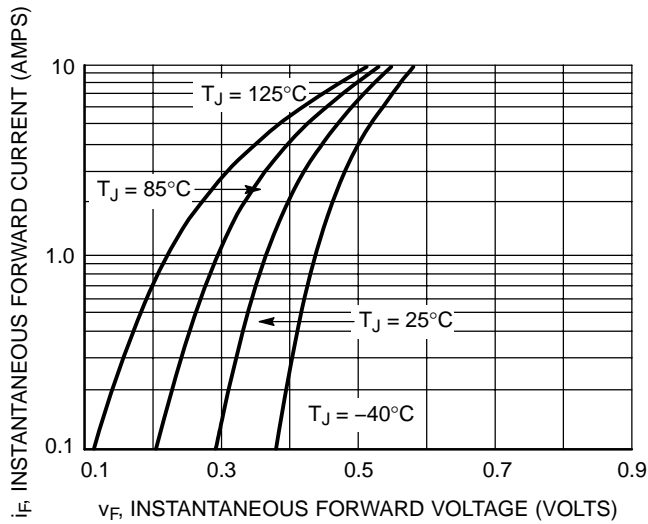


Figure 1. Typical Forward Voltage

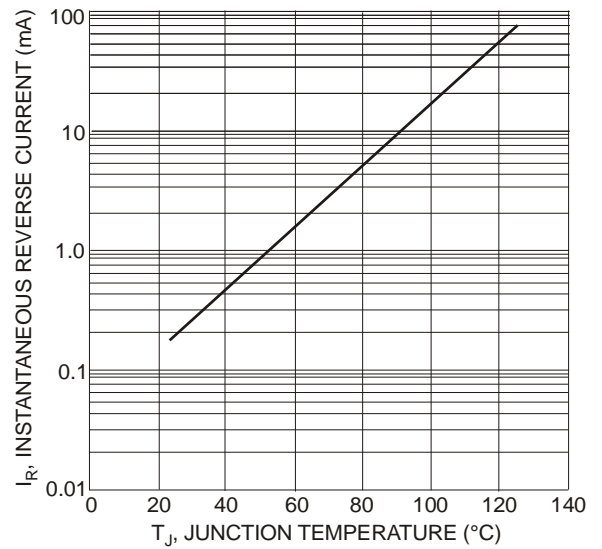


Fig. 2 Typical Pulsed Reverse Characteristics @30V

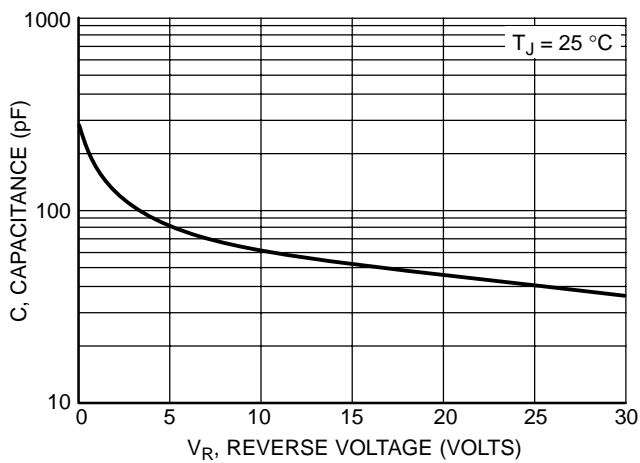


Figure 3. Capacitance



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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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