Micro Commercial Components

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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)

Low Forward Voltage Drop Schottky Barrier Diodes

Mechanical Data

- Packaging:SOD-123FL
- Marking Code: L3
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

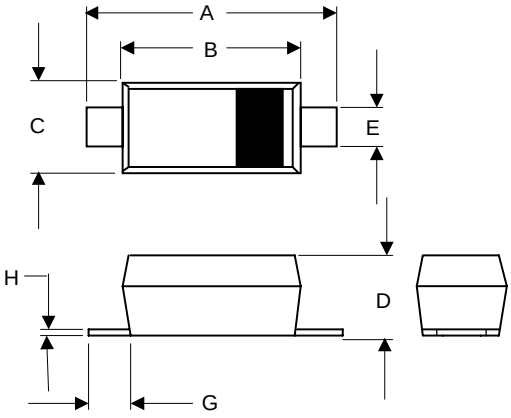
Symbol	Parameter	Rating	Unit
$V_{R(RMS)}$	Maximum RMS Voltage	21	V
V_{RRM}	Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	1	A
I_{FSM}	Surge Forward Current at 8.3ms	30	A
R_{thJL}	Typical Thermal Resistance Junction to lead	26	°C/W
T_J	Operating Junction Temperature	-65 to +125	℃
T_{STG}	Storage Temperature	-65 to +125	℃

Electrical Characteristics @ 25ºC 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

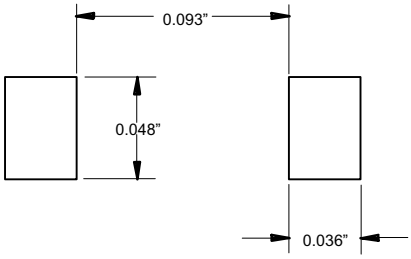
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

SOD-123FL



DIMENSIONS					
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



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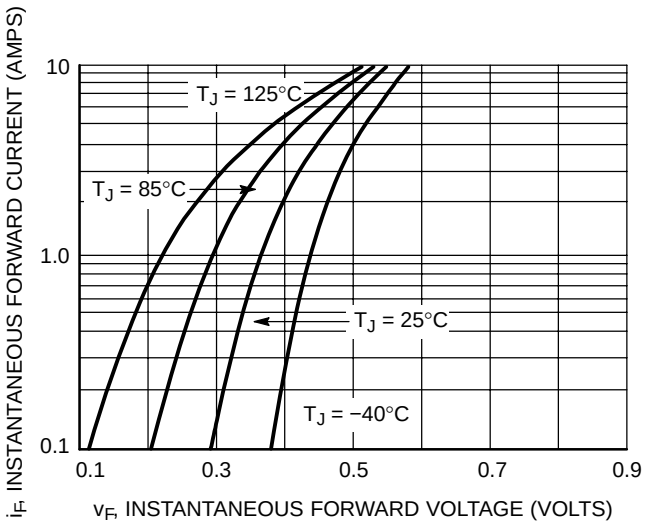


Figure 1. Typical Forward Voltage

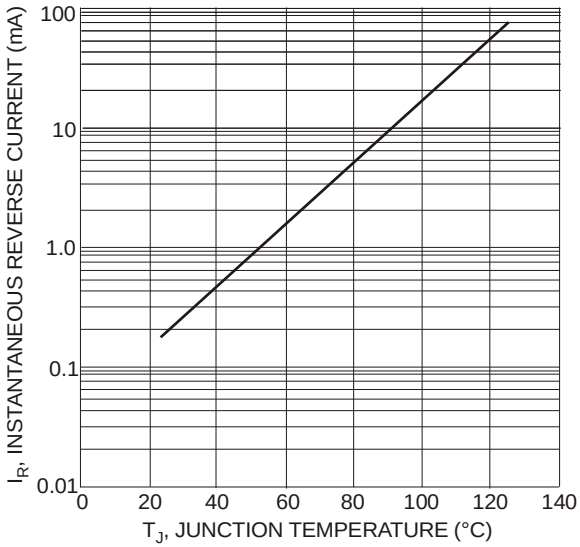


Fig. 2 Typical Pulsed Reverse Characteristics@30V

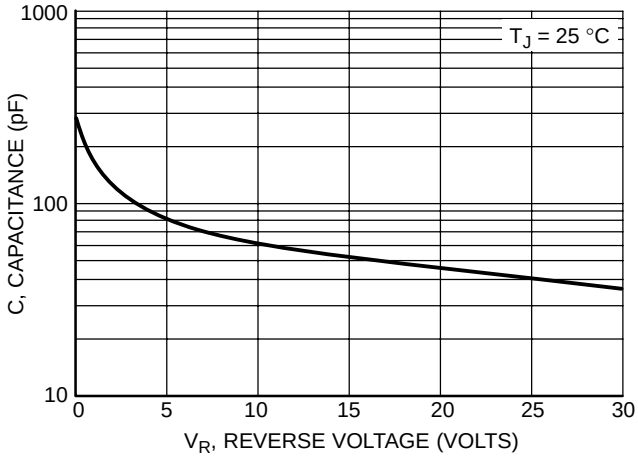


Figure 3. Capacitance

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Ordering Information :

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

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