

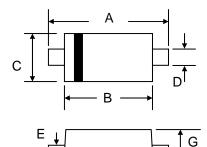
MBR0520L - MBR0540L

0.5A LOW V_F SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Very Low Forward Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-123FL					
Dim	Min	Max			
Α	3.30	3.70			
В	2.60	2.95			
С	1.65	1.95			
D	0.75	1.35			
Е	0.10	0.20			
G	0.98	1.08			
Н	0.50	0.80			
All Dimensions in mm					

Mechanical Data

Case: SOD-123FL, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.017 grams (approx.)

Marking: MBR0520L L2

MBR0530L L3 MBR0540L L4

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	MBR0520L	MBR0530L	MBR0540L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM 20 30 VR		40	V	
Forward Continuous Current (Note 1)	lF		500		mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	10		А	
Thermal Resistance, Junction to Lead (Note 2) Thermal Resistance, Junction to Ambient (Note 1)	R JL R JA	150 206		°C/W	
Operating Temperature Range	TJ	-65 to +125			°C
Storage Temperature Range	Тѕтс	-65 to +150			°C

Electrical Characteristics @TA=25°C unless otherwise specified

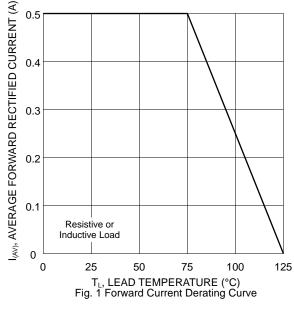
Characteristic		Symbol	MBR0520L	MBR0530L	MBR0540L	Unit
Forward Voltage Drop	@ IF = 0.5A	VFM	0.39	0.	44	V
Peak Reverse Leakage Current @VR = 50% / 100% DC Blocking Voltage		IRM	75 / 250	20 / 130	10 / 20	μA

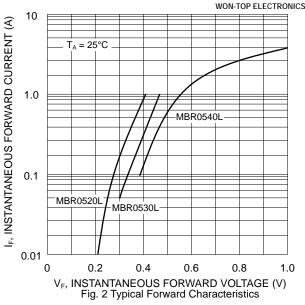
Note: 1. Mounted on FR-4 PCB with 645mm² pad size.

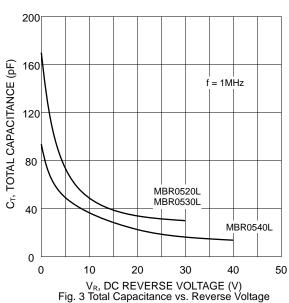
2. Mounted on FR-4 PCB with minimum recommended pad size.

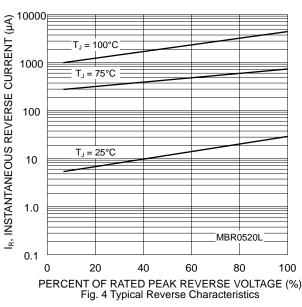
MBR0520L - MBR0540L

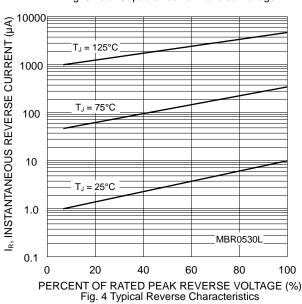


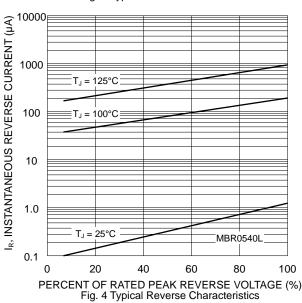








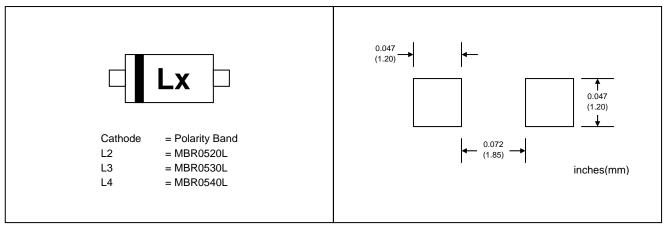






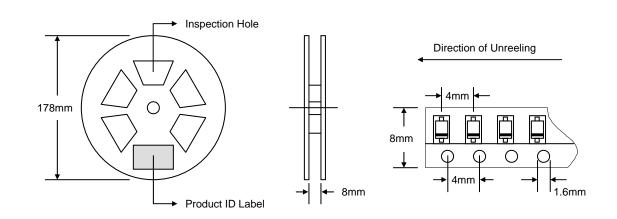
MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	195 x 135 x 195	30,000	370 x 370 x 420	240,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
MBR0520L-T1	SOD-123FL	3000/Tape & Reel		
MBR0530L-T1	SOD-123FL	3000/Tape & Reel		
MBR0540L-T1	SOD-123FL	3000/Tape & Reel		

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 2. suffix to part number above. For example, MBR0520L-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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