

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBR0520L THRU MBR0540L

0.5 Amp Schottky Rectifier 20 to 40 Volts

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- For Surface Mount Application
- Low Forward Voltage and Extremely Low Thermal Resistance
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

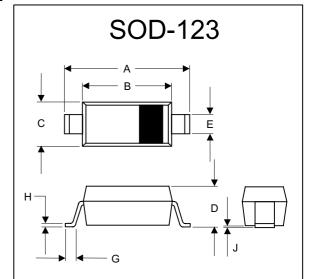
Maximum Ratings

- Operating Temperature: -65°C to +125°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance: 305 °C/W Junction to Ambient

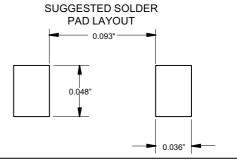
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR0520L	SD	20V	14V	20V
MBR0530L	SE	30V	21V	30V
MBR0540L	SF	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I_{F}	0.5A	
Peak Forward Surge Current	I _{FSM}	5.5A	8.3ms half sine
Maximum Forward voltage			
MBR0520L	V _F	0.3V	I _F =0.1A
WBICOZOL		0.385V	I _F =0.5A
MBR0530L		0.375V	I _F =0.1A
		0.43V	I _F =0.5A
MBR0540L		0.51V	I _F =0.5A
WBROSTOL		0.62V	I _F =1.0A
Maximum DC Reverse Current At Rated DC Blocking Voltage			
MBR0520L	I _R	75uA	V _R =10V
WDI\0320E		250uA	V _R =20V
MBR0530L	'R	20uA	V _R =15V
WBICOCOL		130uA	V _R =30V
MBR0540L		10uA	V _R =20V
WBICOGGE		20uA	V _R =40V
Typical Junction Capacitance	C_J	170pF	V _R =0, f=1MHz
Power Dissipation	P_D	410mW	



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Ε	.012	.031	0.30	.78		
G	.006		0.15			
Н		.01		.25		
J		.006		.15		





MBR0520L thru MBR0540L

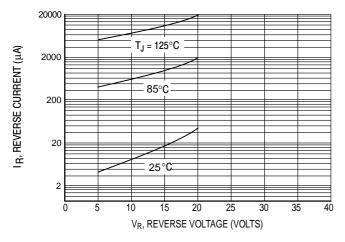


Figure 1. Typical Reverse Current of MBR0520L

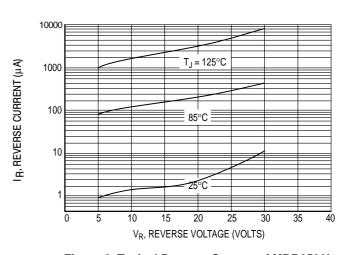


Figure 2. Typical Reverse Current of MBR0530L

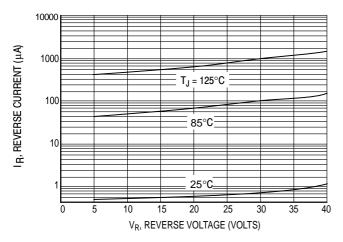


Figure 3. Typical Reverse Current of MBR0540L

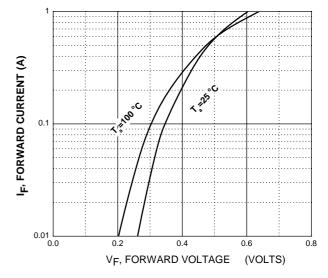


Figure 4. Typical Forward Characteristics of MBR0540L



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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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