

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

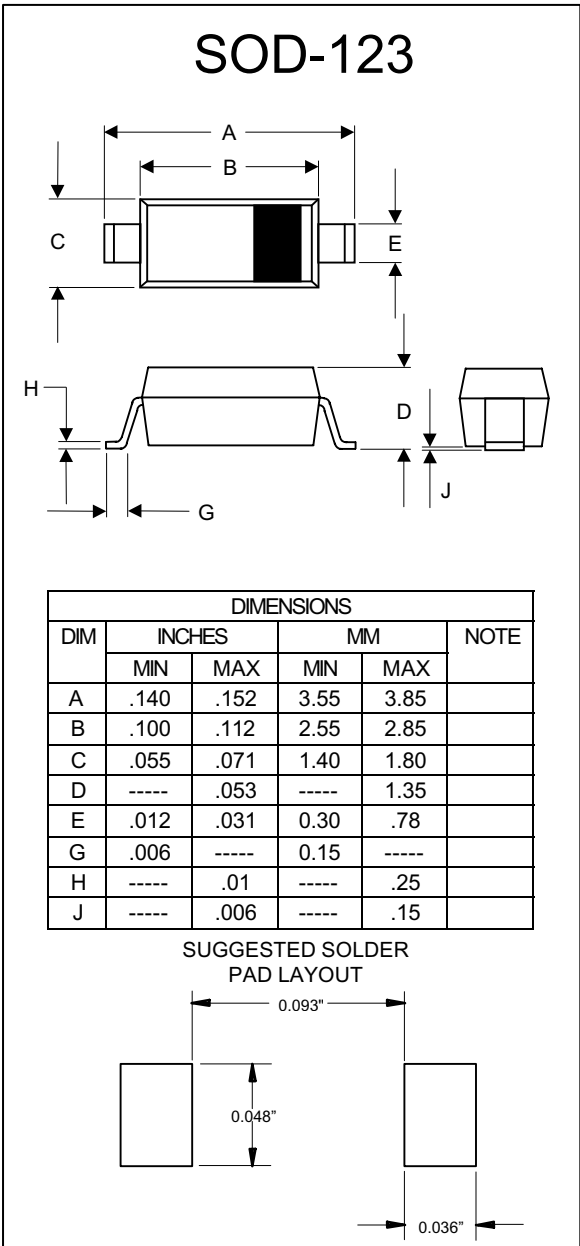
### Maximum Ratings

- 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	$V_F$	0.3V	$I_F=0.1A$
			$I_F=0.5A$
		0.375V	$I_F=0.1A$
			$I_F=0.5A$
		0.51V	$I_F=0.5A$
			$I_F=1.0A$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	75uA	$V_R=10V$
			$V_R=20V$
		20uA	$V_R=15V$
			$V_R=30V$
		10uA	$V_R=20V$
			$V_R=40V$
Typical Junction Capacitance	$C_J$	170pF	$V_R=0, f=1MHz$
Power Dissipation	$P_D$	410mW	



# MBR0520L thru MBR0540L

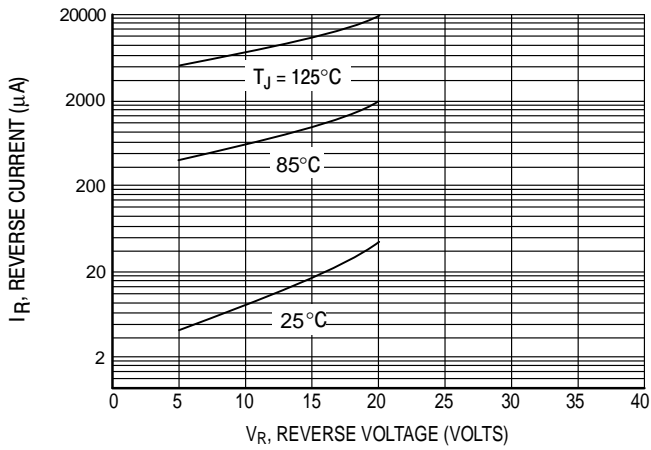


Figure 1. Typical Reverse Current of MBR0520L

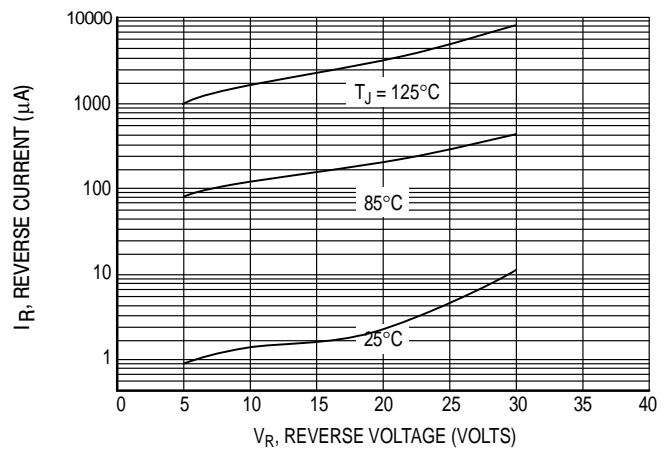


Figure 2. Typical Reverse Current of MBR0530L

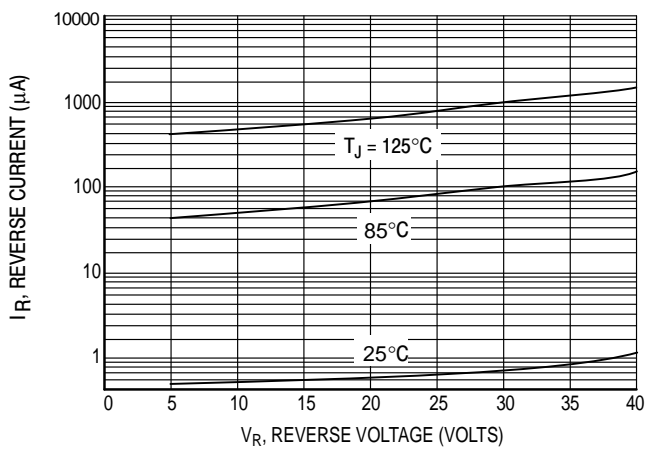


Figure 3. Typical Reverse Current of MBR0540L



Micro Commercial Components

Ordering Information :

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

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