

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

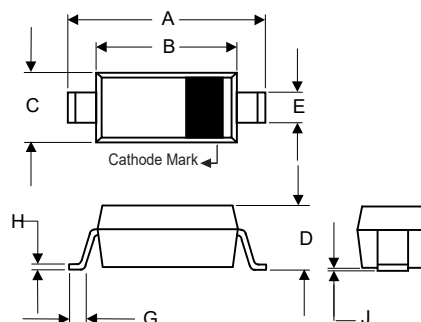
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR0520L	SD	20V	14V	20V
MBR0530L	SE	30V	21V	30V
MBR0540L	SF	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A	
Peak Forward Surge Current	I_{FSM}	5.5A	8.3ms Half Sine
Maximum Forward Voltage	V_F	0.3V 0.385V	$I_F=0.1A$ $I_F=0.5A$
	MBR0530L	0.375V 0.43V	$I_F=0.1A$ $I_F=0.5A$
	MBR0540L	0.51V 0.62V	$I_F=0.5A$ $I_F=1.0A$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	75μA 250μA	$V_R=10V$ $V_R=20V$
	MBR0530L	20μA 130μA	$V_R=15V$ $V_R=30V$
	MBR0540L	10μA 20μA 5mA	$V_R=20V$ $V_R=40V$ $T_J=100^\circ C, V_R=40V$
Typical Junction Capacitance	C_J	170pF	$V_R=0, f=1MHz$
Power Dissipation	P_D	410mW	

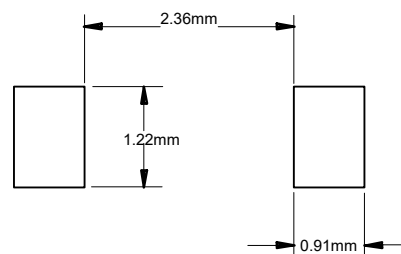
0.5 Amp Low VF Schottky Rectifier 20 to 40 Volts

SOD-123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	0.055	0.071	1.40	1.80	
D	----	0.053	----	1.35	
E	0.018	0.026	0.45	0.65	
G	0.006	----	0.15	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Characteristics

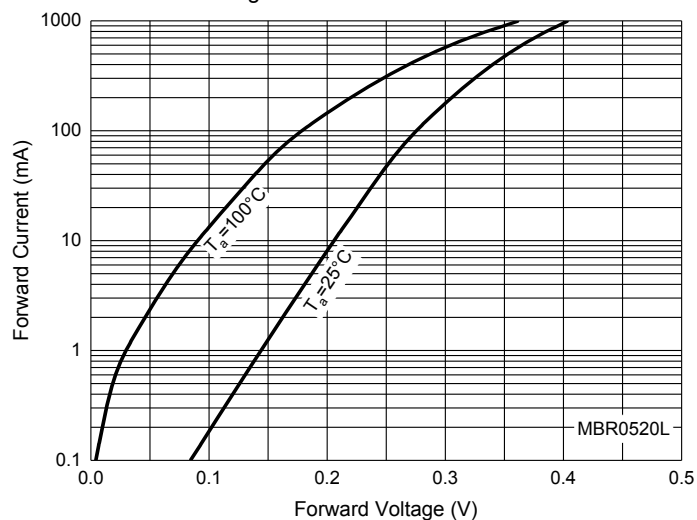


Fig. 2 - Forward Characteristics

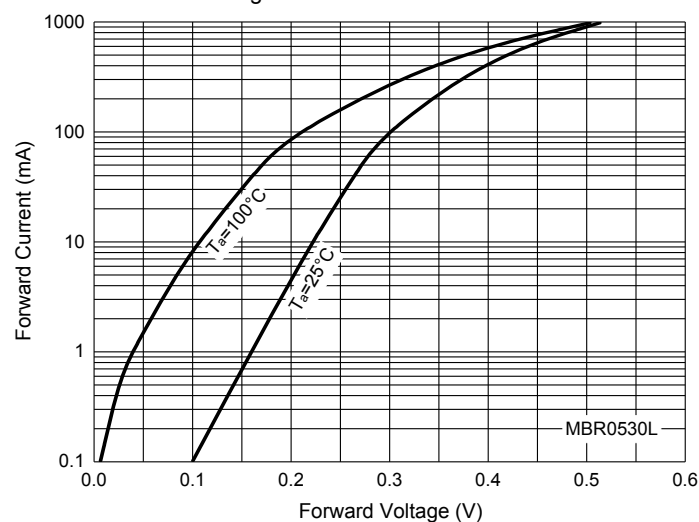


Fig. 3 - Forward Characteristics

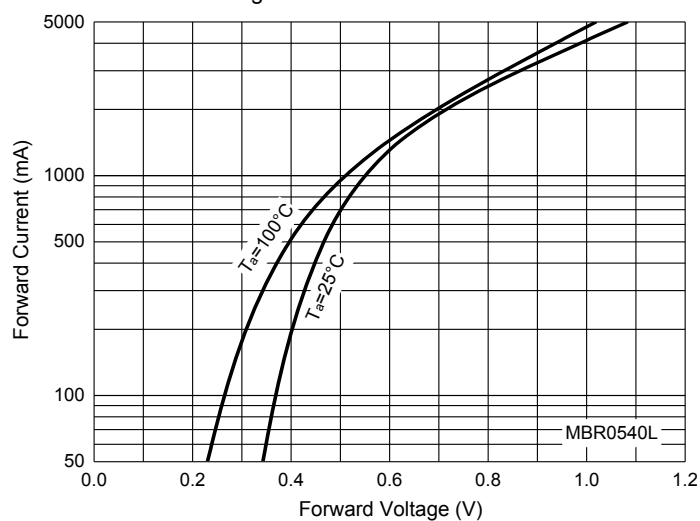


Fig. 4 - Reverse Characteristics

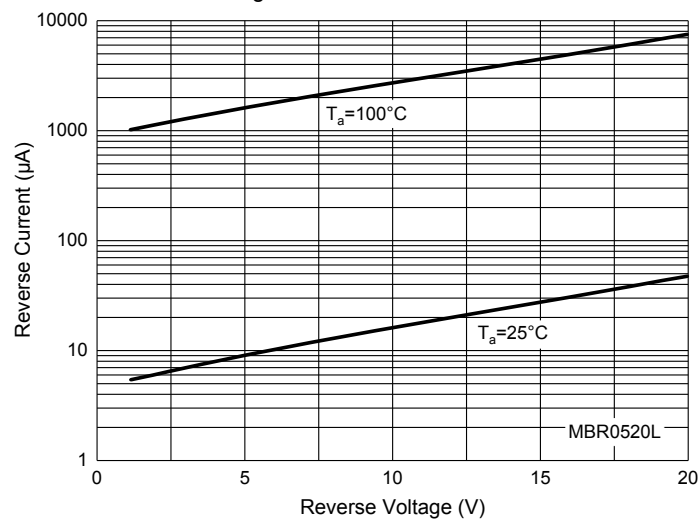


Fig. 5 - Reverse Characteristics

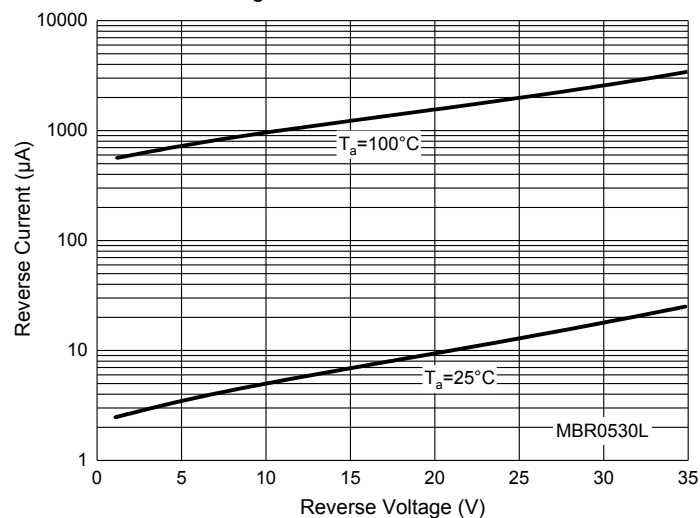
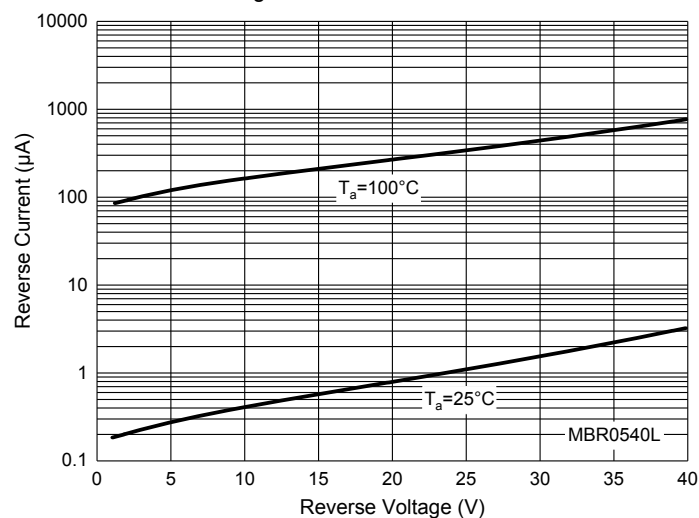


Fig. 6 - Reverse Characteristics



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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