

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. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance(Note 2): 244°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR0520	R2	20V	14V	20V
MBR0530	R3	30V	21V	30V
MBR0540	R4	40V	28V	40V
MBR0560	R6	60V	42V	60V
MBR0580	R8	80V	56V	80V

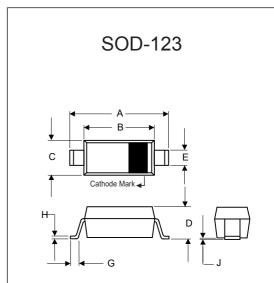
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A	T _A = 50°C
Peak Forward Surge Current	I _{FSM}	5.5A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage MBR0520 MBR0530 MBR0540 MBR0560 MBR0580	V _F	0.45V 0.55V 0.55V 0.70V 0.80V	I _{FM} =0.5A; T _J = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA	T _J = 25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz , V _R =4.0V
Power Dissipation	P _D	410mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

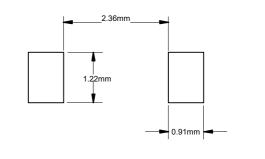
Note:2. Mounted on FR4 PCB, Single-sided Copper, Suggested Pad Layout.

0.5 Amp Schottky Rectifier 20 to 80 Volts



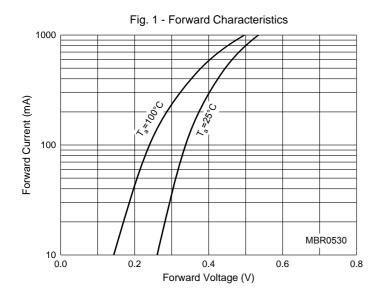
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

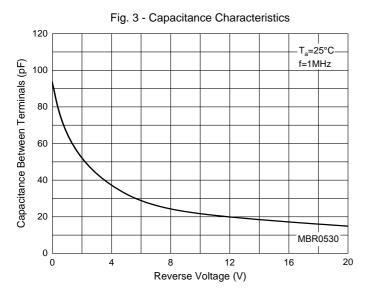
Suggested Solder Pad Layout

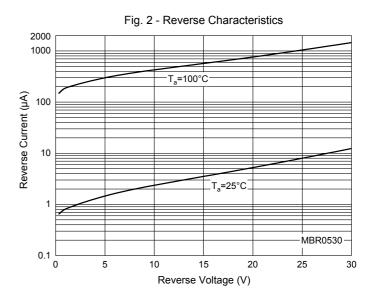


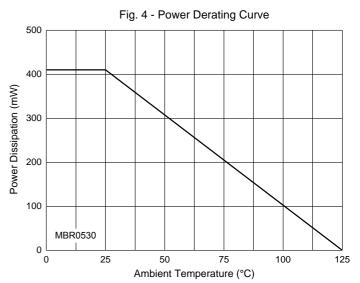


Curve Characteristics











Ordering Information

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

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