

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

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: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 244°C/W Junction to Ambient

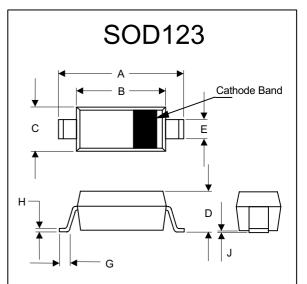
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------------|-------------------|--|---------------------------|--------------------------------------|
| MBR0520 | R2 | 20V | 14V | 20V |
| MBR0530 | R3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

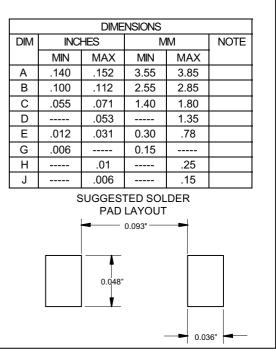
Electrical Characteristics @ 25°C Unless Otherwise Specified

| 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 _A =25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 0.2mA | TJ=25°C |
| Typical Junction Capacitance | C」 | 30pF | Measured at 1.0MHz, V _R =4.0 V |
| Power dissipation | P_{D} | 410mW | |

MBR0520 THRU **MBR0580**

0.5 Amp **Schottky Rectifier** 20 to 80 Volts





www.mccsemi.com

2014/09/05



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40

60 80 100

Figure 2

12

10

8

6

2

0

1

2

4

8 10 20

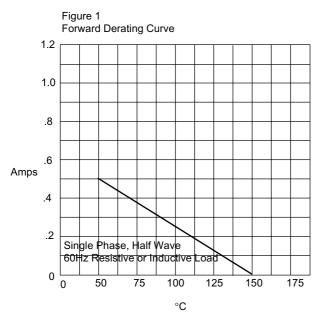
Cycles

Peak Forward Surge Current - Amperesversus

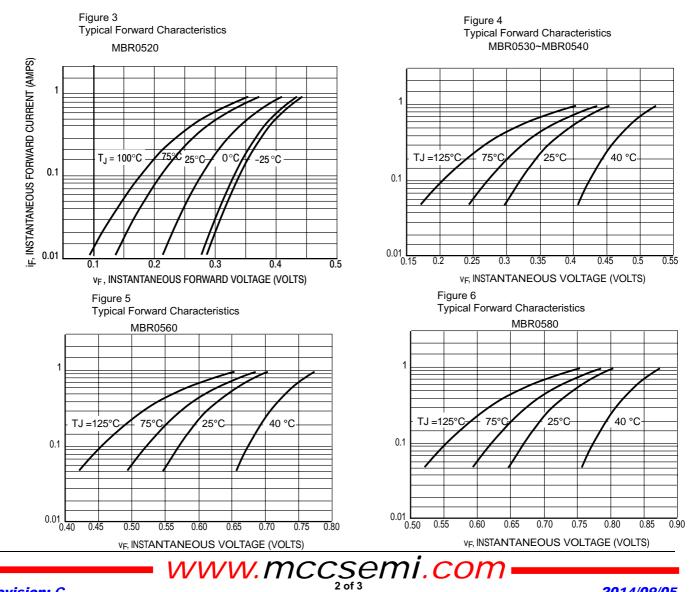
Number Of Cycles At 60Hz - Cycles

Amps 4 Peak Forward Surge Current

MBR0520 thru MBR0580



Average Forward Rectified Current - Amperes versus Ambient Temperature -°C



Revision: C

2014/09/05



Ordering Information :

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

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

*****IMPORTANT NOTICE*****

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