

MBR0520 THRU MBR0580

0.5 Amp Schottky Rectifier 20 to 80 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

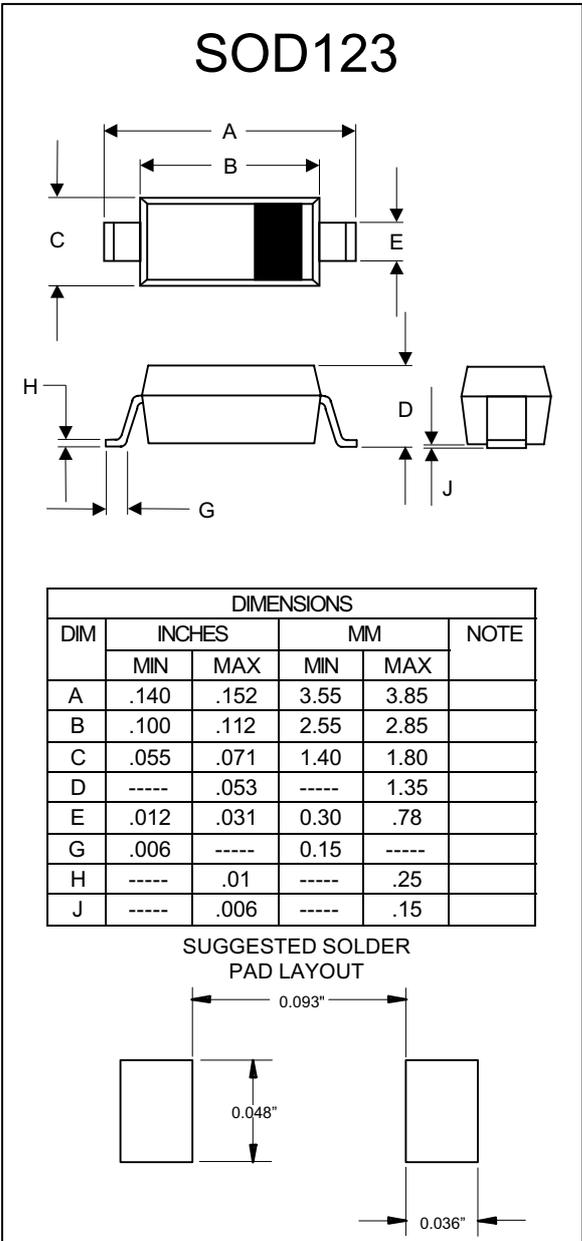
Maximum Ratings

- Operating Temperature: -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

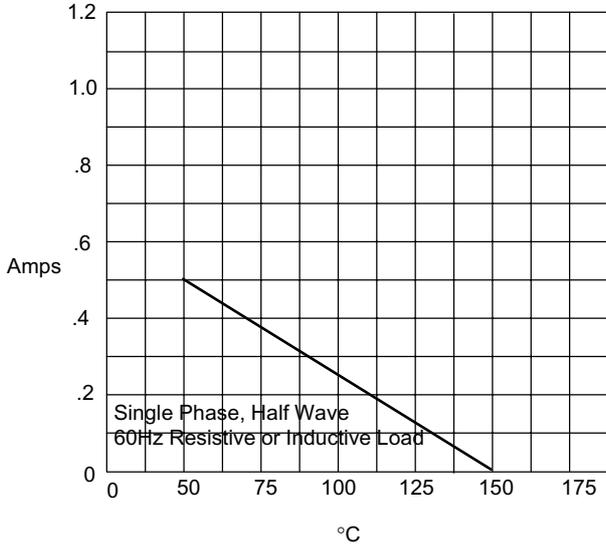
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A	$T_A=50^\circ\text{C}$			
Peak Forward Surge Current	I_{FSM}	5.5A	8.3ms half sine			
Maximum Instantaneous Forward Voltage	V_F	MBR0520 0.45V MBR0530 0.55V MBR0540 0.55V MBR0560 0.70V MBR0580 0.80V	$I_{FM}=0.5A$ $T_A=25^\circ\text{C}$			
Maximum DC Reverse Current At Rated DC Blocking Voltage				I_R	0.2mA	$T_J=25^\circ\text{C}$
Typical Junction Capacitance				C_J	30pF	Measured at 1.0MHz, $V_R=4.0V$
Power dissipation				P_D	410mW	



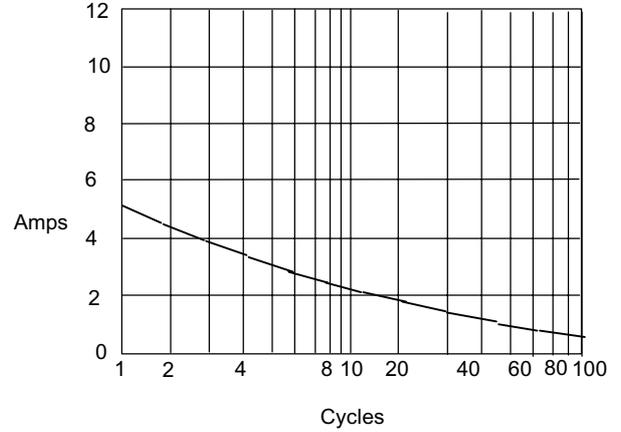
MBR0520 thru MBR0580

Figure 1
Forward Derating Curve



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

Figure 2
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 3
Typical Forward Characteristics
MBR0520

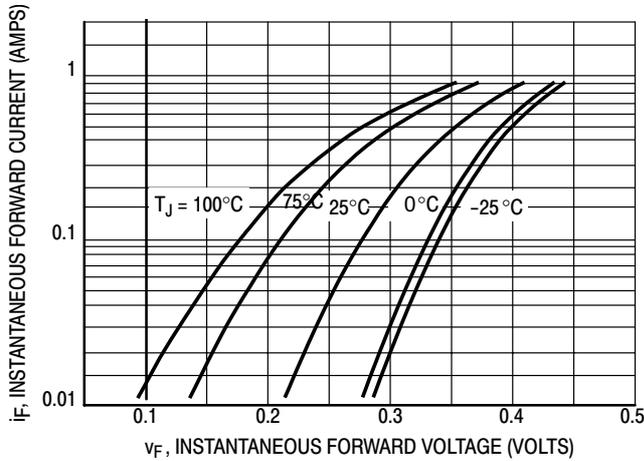


Figure 4
Typical Forward Characteristics
MBR0530~MBR0540

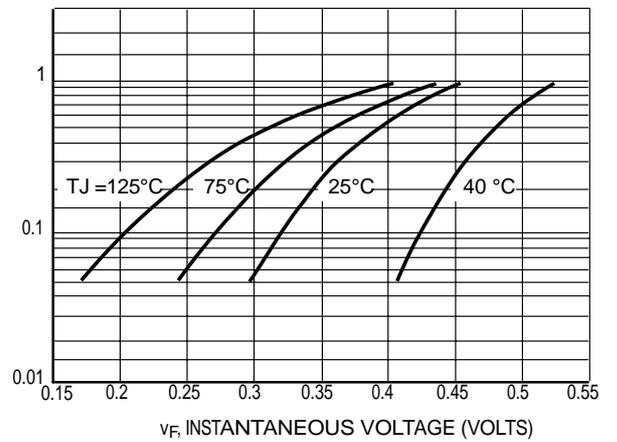


Figure 5
Typical Forward Characteristics
MBR0560

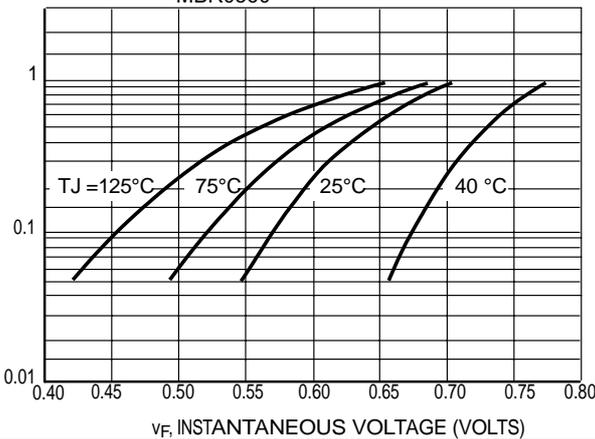
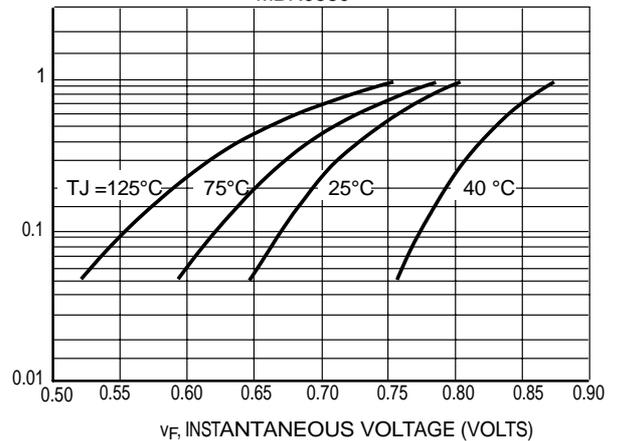


Figure 6
Typical Forward Characteristics
MBR0580





TM

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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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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Работу по проектам и поставку образцов.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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