

Micro Commercial Components
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**MBRX02520
THRU
MBRX02560**

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Extremely Low Thermal Resistance
- Reverse Energy Tested and High Current Capability
- Guard Ring Protection
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

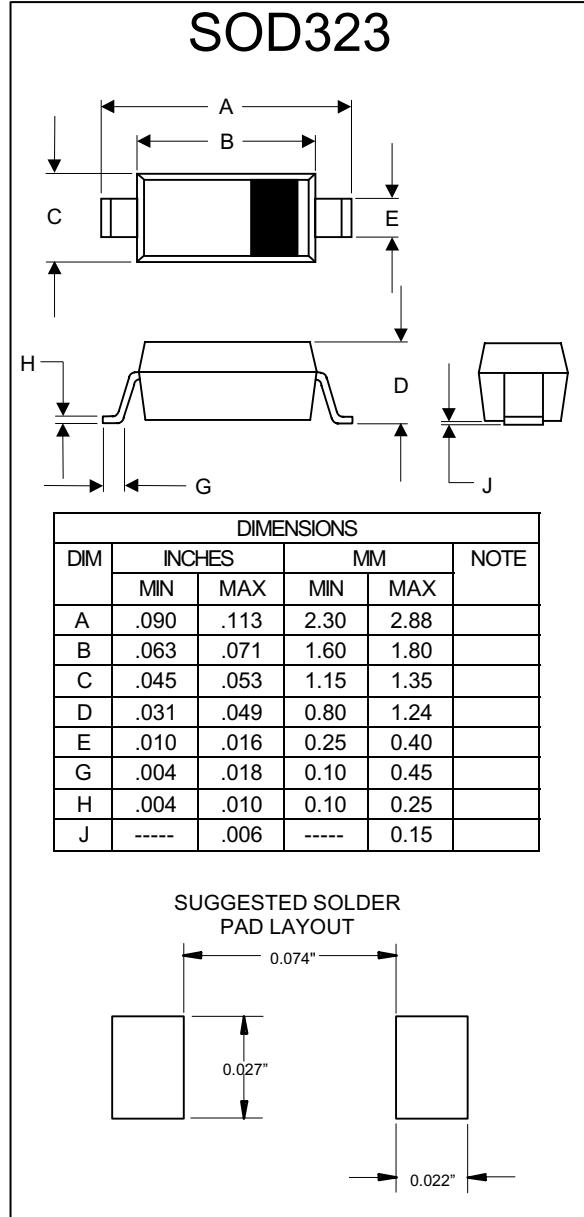
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 65°C/W Junction to Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX02520	A	20V	14V	20V
MBRX02530	B	30V	21V	30V
MBRX02540	C	40V	28V	40V
MBRX02550	D	50V	35V	50V
MBRX02560	E	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.25A	$T_J=115^\circ C$
Peak Forward Surge Current	I_{FSM}	5A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBRX02520 MBRX02530-40 MBRX02550-60	V_F	0.45V 0.55V 0.70V	$I_{FM}=0.25A$ $T_J=25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking	I_R	0.5mA 20mA	$T_A=25^\circ C$ $T_A=100^\circ C$
Typical Junction Capacitance	C_J	10pF	Measured at 1.0MHz, $V_R=4.0V$

**0.25 Amp
Schottky Barrier
Rectifier
20 to 60 Volts**

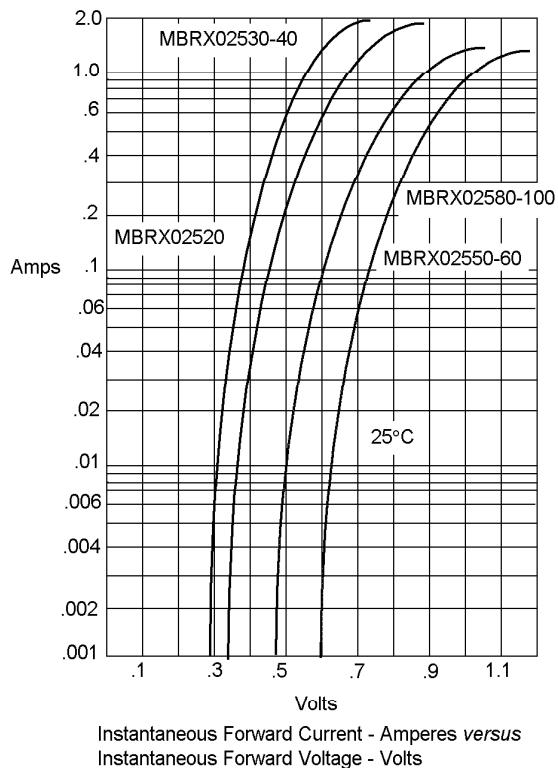


MBRX02520 thru MBRX02560

M•C•C

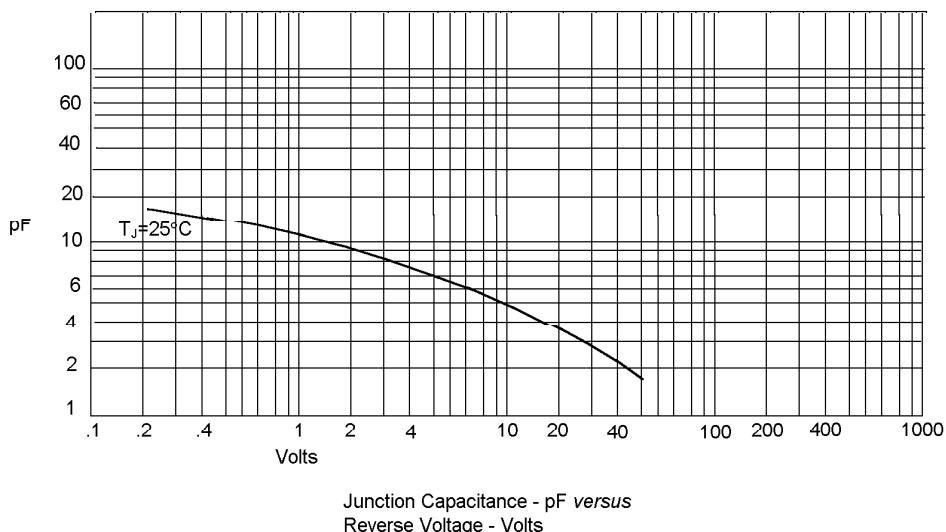
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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 5
Forward Derating Curve

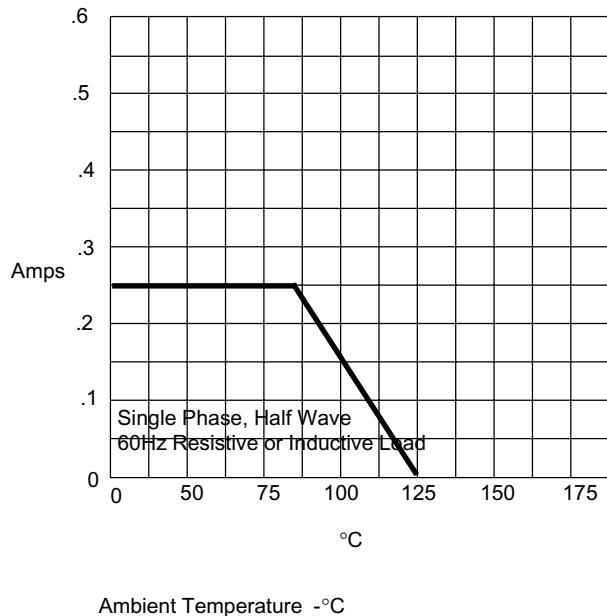
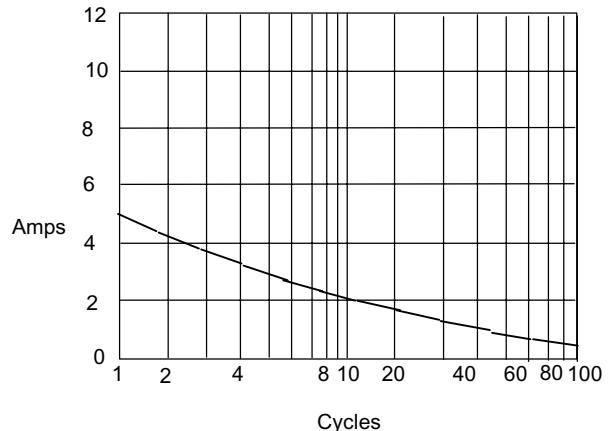


Figure 6
Peak Forward Surge Current



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

Ambient Temperature - °C

TM

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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