



Micro Commercial Components

## ***Micro Commercial Components Corp.***

### **Products End of Life Notification**

**Issue date: Jan-1<sup>th</sup>-2009**

**Last Buy Date : N/A**

**Description and Purpose:**

**MCC has undergone a review of its core business and products , and  
determined to discontinue below products:**

<b>Discontinued Devices</b>	<b>Possible Replacements</b>
<b>MBRX02520</b>	<b>None</b>
<b>MBRX02530</b>	<b>None</b>
<b>MBRX02540</b>	<b>None</b>
<b>MBRX02550</b>	<b>None</b>
<b>MBRX02560</b>	<b>None</b>



**Micro Commercial Components**

Micro Commercial Components  
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**MBRX02520  
 THRU  
 MBRX02560**

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

**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	$T_J=115^\circ\text{C}$
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	$I_{FM}=0.25A$ $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking	$I_R$	0.5mA 20mA	$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	10pF	Measured at 1.0MHz, $V_R=4.0V$

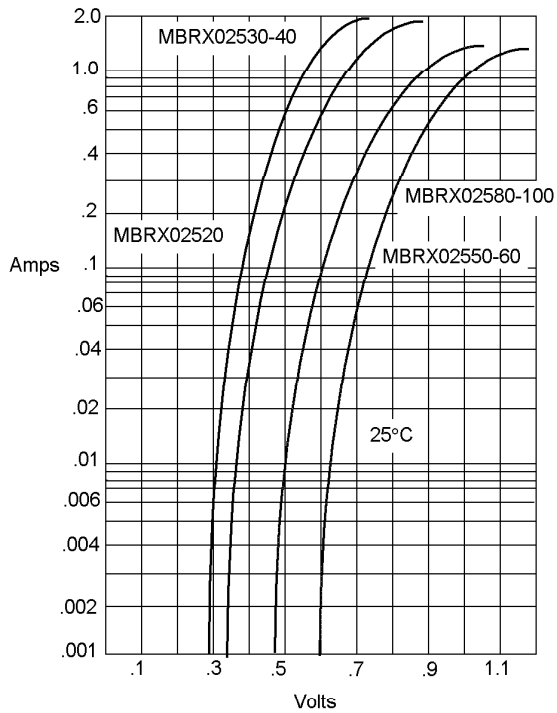
**SOD323**

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.113	2.30	2.88	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.049	0.80	1.24	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

**SUGGESTED SOLDER PAD LAYOUT**

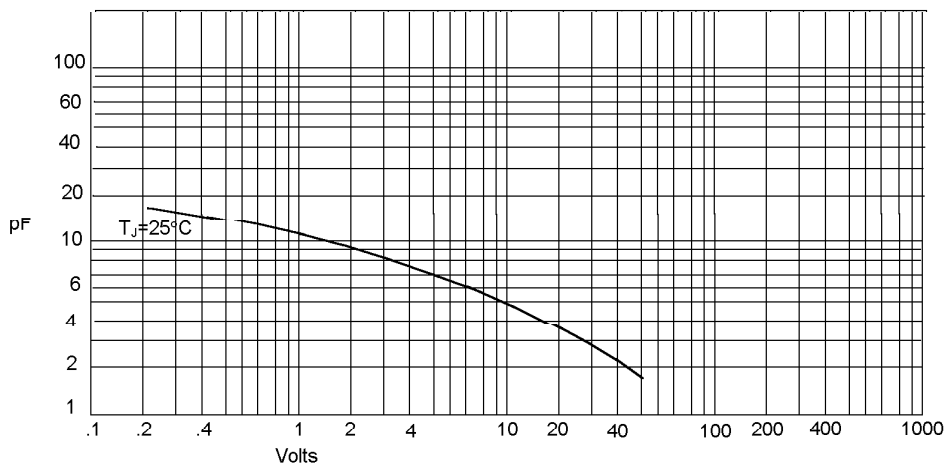
# MBRX02520 thru MBRX02560

Figure 1  
Typical Forward Characteristics



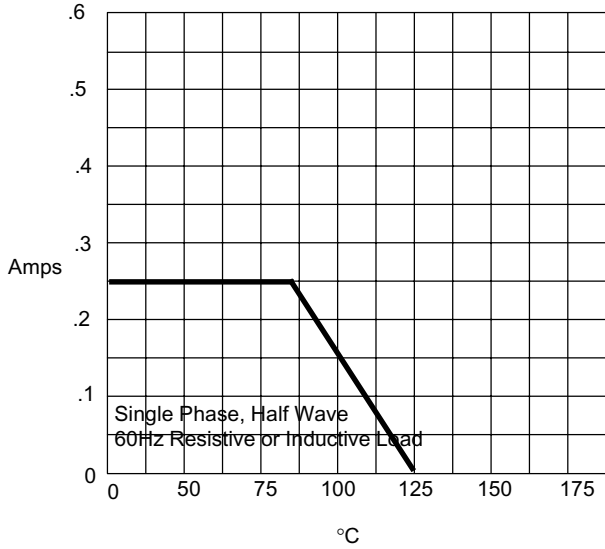
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Junction Capacitance



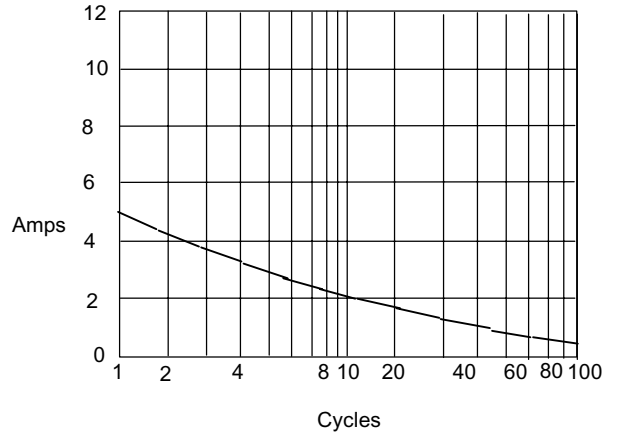
Junction Capacitance - pF *versus*  
Reverse Voltage - Volts

Figure 5  
Forward Derating Curve



Ambient Temperature -°C

Figure 6  
Peak Forward Surge Current



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



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## Ordering Information

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

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