



Micro Commercial Components

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MBRX0520 THRU MBRX0560

0.5 Amp
Schottky Rectifier
20 to 60 Volts

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

Operating Temperature: -55°C to +125°C

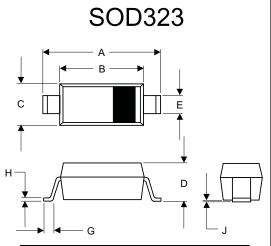
• Storage Temperature: -55°C to +150°C

Maximum Thermal Resistance: 5°C/W Junction to Lead

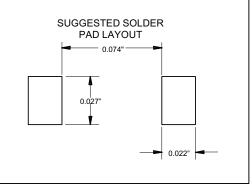
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX0520	2	20V	14V	20V
MBRX0530	3	30V	21V	30V
MBRX0540	4	40V	28V	40V
MBRX0560	6	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A	T _J =90°C
Peak Forward Surge Current	I _{FSM}	5A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBRX0520 MBRX0530 MBRX0540 MBRX0560	V _F	0.45V 0.55V 0.55V 0.70V	I _{FM} =0.5A T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.3mA	T _A =25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V _R =4.0V
Power Dissipation	P□	250mW	



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.113	2.30	2.88		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.049	0.80	1.24		
Ε	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Η	.004	.010	0.10	0.25		
J		.006		0.15		



MBRX0520 thru MBRX0560



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Figure 1 Typical Forward Characteristics

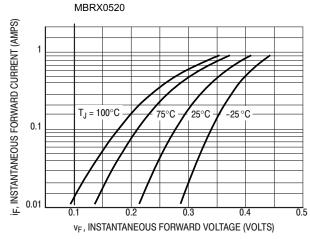


Figure 2
Typical Forward Characteristics
MBRX0530~MBRX0540

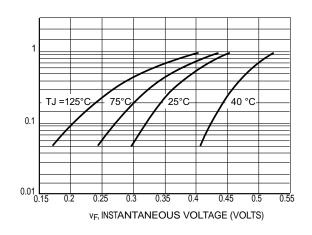


Figure 3
Typical Forward Characteristics

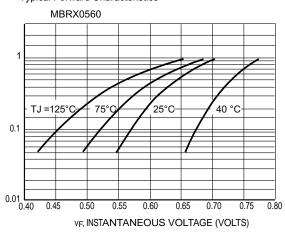
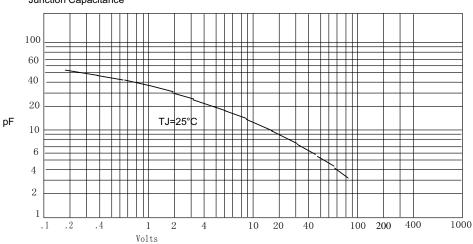
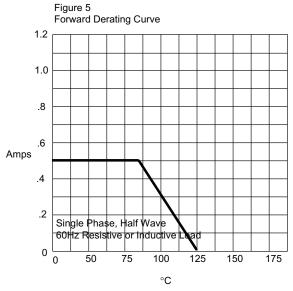


Figure 4 Junction Capacitance

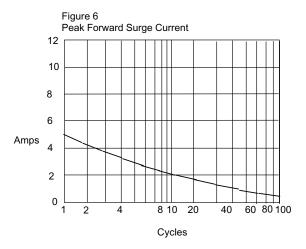




MBRX0520 thru MBRX0560



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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