

Micro Commercial Components

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

Features

- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Low Forward Voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 200°C/W Junction to Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX120	X2	20V	14V	20V
MBRX130	X3	30V	21V	30V
MBRX140	X4	40V	28V	40V
MBRX160	X6	60V	42V	60V

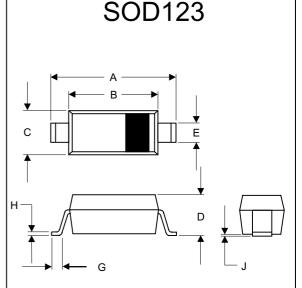
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _J =90°C
Peak Forward Surge Current	I _{FSM}	20A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBRX120 MBRX130 MBRX140 MBRX160	V _F	0.50V 0.55V 0.55V 0.72V	I _{FM} =1.0A T _A =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.3mA	T _J =25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V _R =4.0V

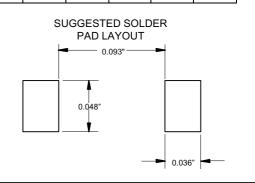
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

MBRX120 THRU MBRX160

1.0 Amp Schottky Barrier Rectifier 20 to 60 Volts



DIMENSIONS						
DIM	INCHES		N	NOTE		
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Е	.012	.031	0.30	.78		
G	.006		0.15			
Н		.01		.25		
J		.006		.15		



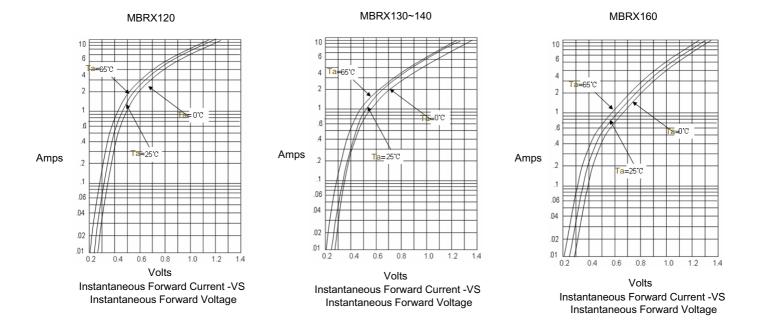
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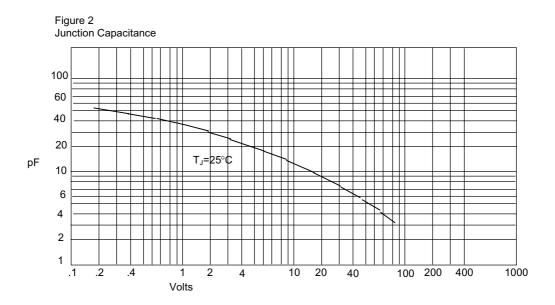
MBRX120 thru MBRX160



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Figure 1 Typical Forward Characteristics





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Figure 4

60

50

40

30

20

10

0

1

2

4

8 10 20

Cycles

Peak Forward Surge Current - Amperesversus

Number Of Cycles At 60Hz - Cycles

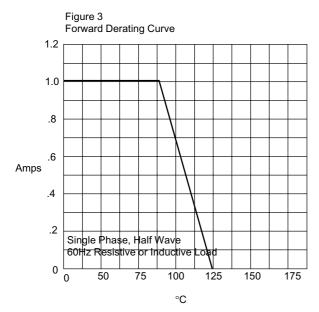
40

60 80 100

Amps

Peak Forward Surge Current

MBRX120 thru MBRX160



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

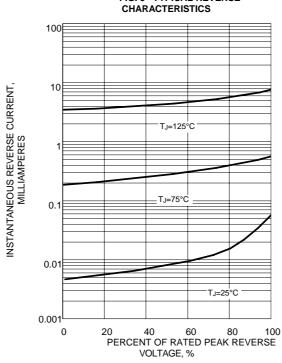


FIG. 5 - TYPICAL REVERSE

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2011/01/01



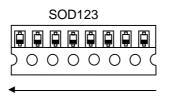
SURFACE MOUNT

SURFACE MOUNT

TYPE	TAPE SIZE (mm)	BULK/TUBE	7 INCH REEL	13 INCH REEL QUANTITY
SOD123	8		3000	

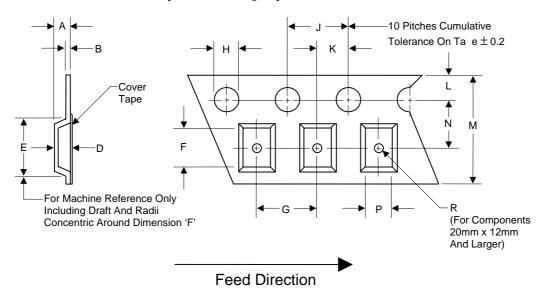
TAPE DIMENSIONS AND ORIENTATION

8mm Tape (in millimeters)



DIRECTION OF UNREELING

Embossed Carrier Tape Specifications (8mm Tape)



Tape Size	Н		L	L J		B (N	lax)	D, F, P	Constant
8	1.5 _{+0.1, -}	0.0 1	1.75±0.10 4.0±0.1 0.600 S		±0.10 4.0±0.1		See Note 1	Dimensions	
Tape Size	E (Max)	R (Min)) N		A (Max)		K	M	Variable Dimensions
8mm	4.2	1.0	3.5±0.	05	2.4	2.0	±0.05	8.0±0.30	
Tape Size G									
4.0±0.10			8.0±0.10 1		2.0±0.10	16.0±0.10			
8m	m		Х						

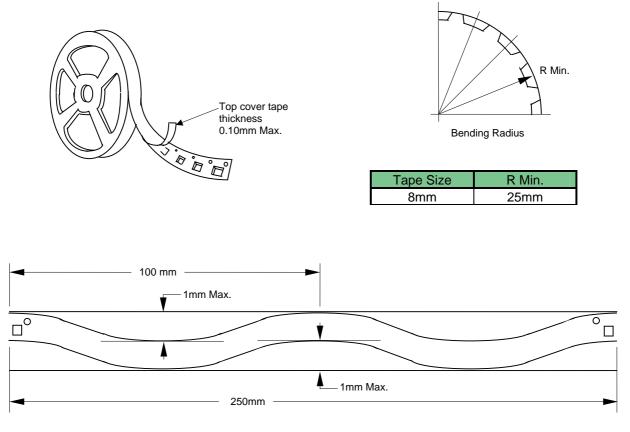


Revision: A

2011/01/01

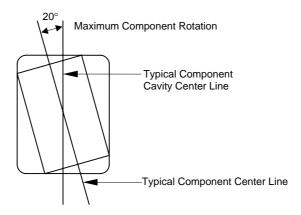


SURFACE MOUNT



Camber (Top View)

Allowable camber to be 1mm/100mm non-accumulative over 250mm





Revision: A

2011/01/01



Ordering Information :

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

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