

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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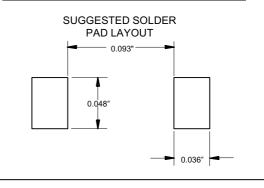
MBRX120 THRU MBRX160

1.0 Amp Rectifier 20 to 60 Volts

Schottky Barrier

SOD123 С

DIMENSIONS						
DIM	INC	HES	M	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		



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
- Halogen free available upon request by adding suffix "-HF"

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	Х3	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 3uA	Rated Vr Vr=3.3V
Typical Junction Capacitance	С	30pF	Measured at 1.0MHz, V _R =4.0V

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



Figure 1 Typical Forward Characteristics

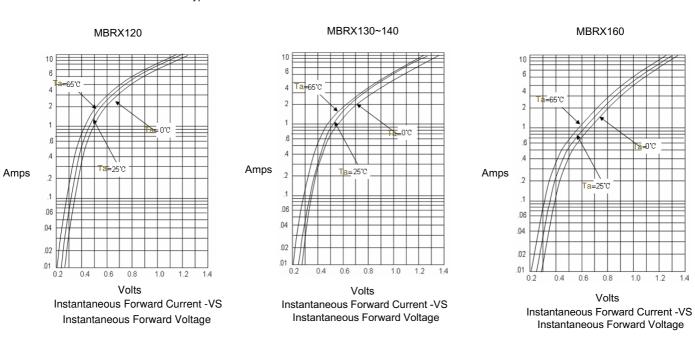
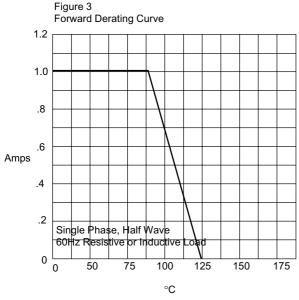


Figure 2 Junction Capacitance

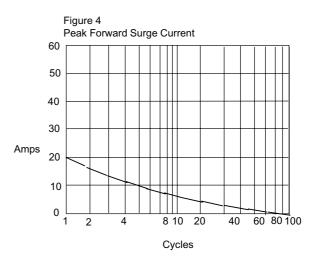
Volts



MBRX120 thru MBRX160

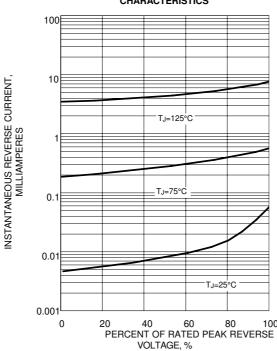


Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C



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

FIG. 5 - TYPICAL REVERSE CHARACTERISTICS





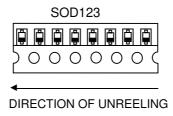
SURFACE MOUNT

SURFACE MOUNT

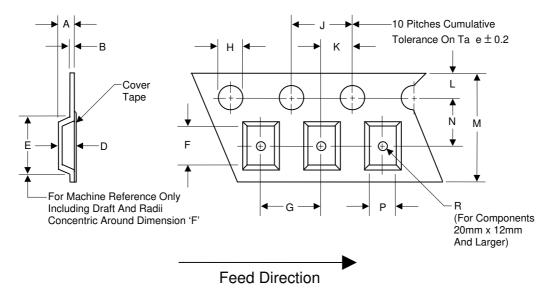
TYPE	TAPE SIZE	BULK/TUBE	7 INCH REEL	13 INCH REEL
	(mm)	QUANTITY	QUANTITY	QUANTITY
SOD123	8		3000	

TAPE DIMENSIONS AND ORIENTATION

8mm Tape (in millimeters)



Embossed Carrier Tape Specifications (8mm Tape)



Tape Size	Н		L		J	B (Max)	D, F, P	Constant
8	1.5 +0.1, -	0.0 1.7	5±0.10	4.	0±0.1	0.600	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						

8.0±0.10

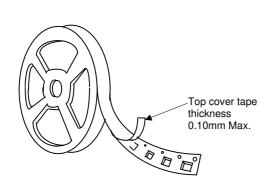
4.0±0.10

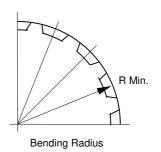
12.0±0.10

16.0±0.10

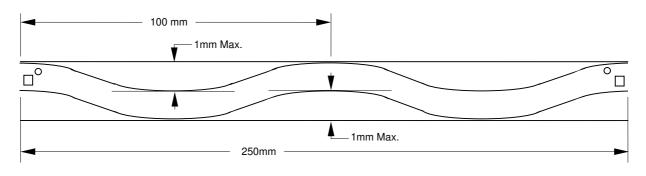


SURFACE MOUNT



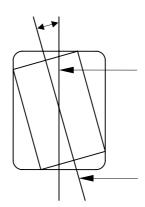


Tape Size	R Min.
8mm	25mm



Camber (Top View)

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





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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