

Features



Micro Commercial Components

Compliant. See ordering information) Extremely Low Thermal Resistance

Epoxy meets UL 94 V-0 flammability rating

For Surface Mount Application

Moisture Sensitivity Level 1

Low Forward Voltage



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

MBRX120 THRU MBRX160

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

SOD123 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

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

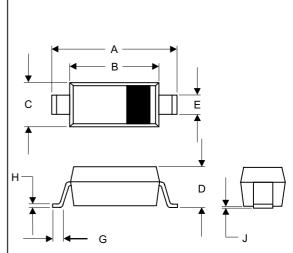
Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates

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	60\/

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	CJ	30pF	Measured at 1.0MHz, V _R =4.0V

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



DIMENSIONS							
DIM	INC	HES	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			

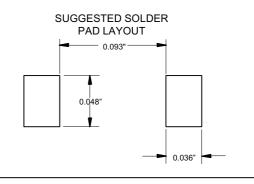
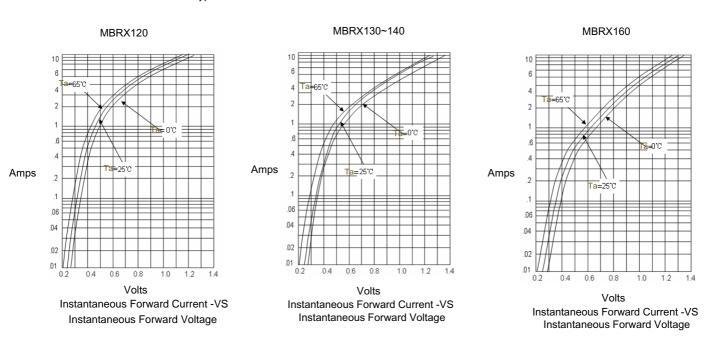
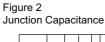
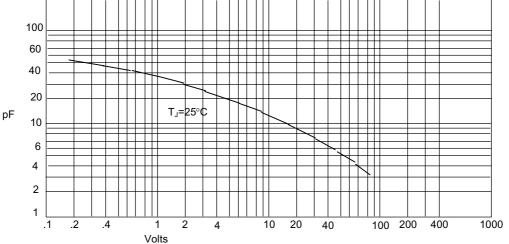




Figure 1
Typical Forward Characteristics

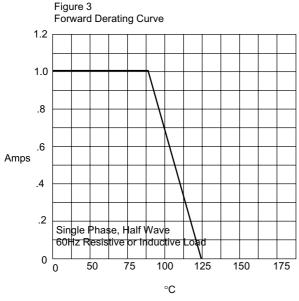




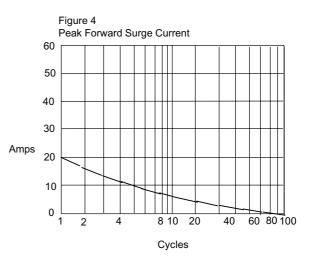




MBRX120 thru MBRX160

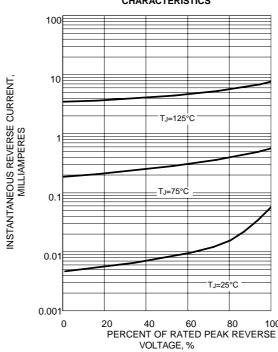


Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C



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

FIG. 5 - TYPICAL REVERSE CHARACTERISTICS





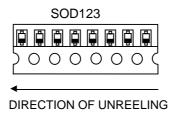
SURFACE MOUNT

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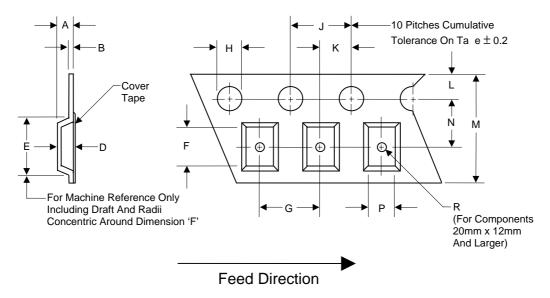
TYPE	TAPE SIZE	BULK/TUBE	7 INCH REEL	13 INCH REEL
	(mm)	QUANTITY	QUANTITY	QUANTITY
SOD123	8		3000	

TAPE DIMENSIONS AND ORIENTATION

8mm Tape (in millimeters)



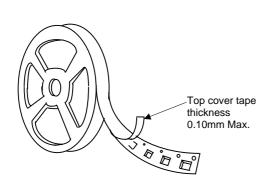
Embossed Carrier Tape Specifications (8mm Tape)

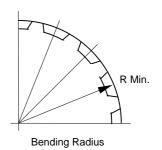


Tape Size	Н			L		J	B (Ma	ax)	D, F,	Р	Constant
8	1.5 +0.1,	-0.0	1.75	±0.10	4.	0±0.1	0.60	00	See No	ote 1	Dimensions
Tape	E	R		N		Α	ŀ	<	M		Variable
Size	(Max)	(Mir	n)			(Max)					Dimensions
8mm	4.2	1.0)	3.5±0	.05	2.4	2.0±	0.05	8.0±0	0.30	
Tape S	Size	G									

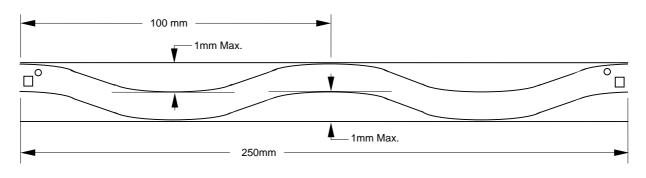


SURFACE MOUNT



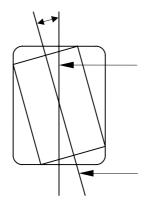


Tape Size	R Min.
8mm	25mm



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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