

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- For Surface Mount Application
- Low Forward Voltage And Extremely Low Thermal Resistance
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX0520L	SD	20V	14V	20V

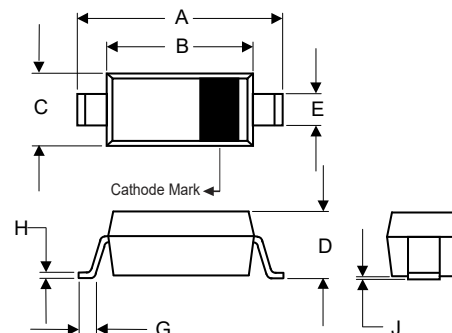
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_F$	0.5A	
Peak Forward Surge Current	$I_{FSM}$	5.5A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	0.33V 0.39V	$I_F=0.1A$ ; $I_F=0.5A$ ;
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	75 $\mu$ A 250 $\mu$ A	$V_R = 10V$ $V_R = 20V$
Typical Junction Capacitance	$C_J$	170pF	$V_R=0$ , $f=1MHz$
Power Dissipation	$P_D$	200mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

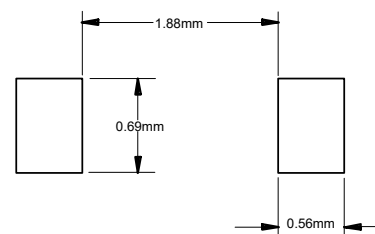
## 0.5 Amp Low VF Schottky Rectifier 20 Volts

### SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

### Suggested Solder Pad Layout



**Curve Characteristics**

Fig. 1 - Forward Characteristics

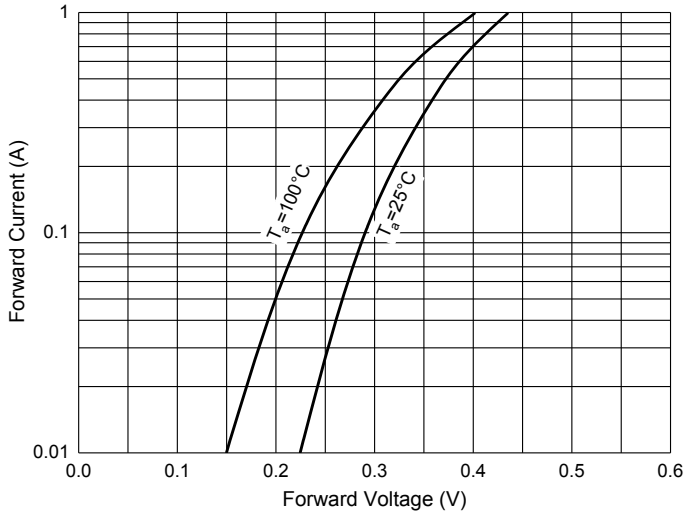


Fig. 2 - Reverse Characteristics

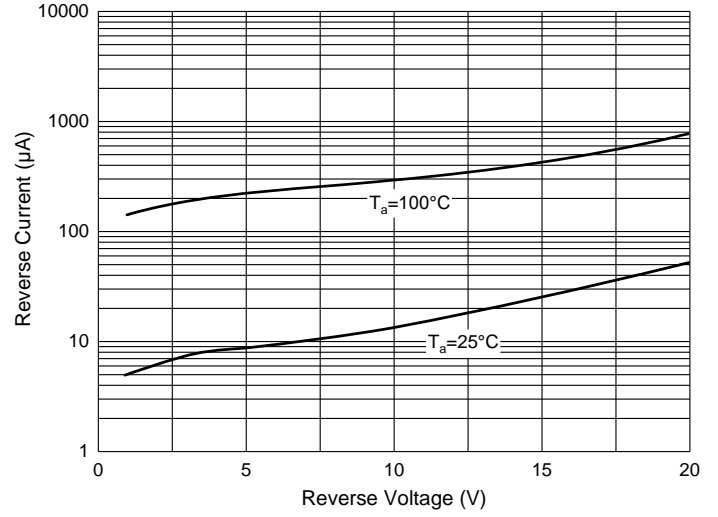


Fig. 3 - Capacitance Characteristics

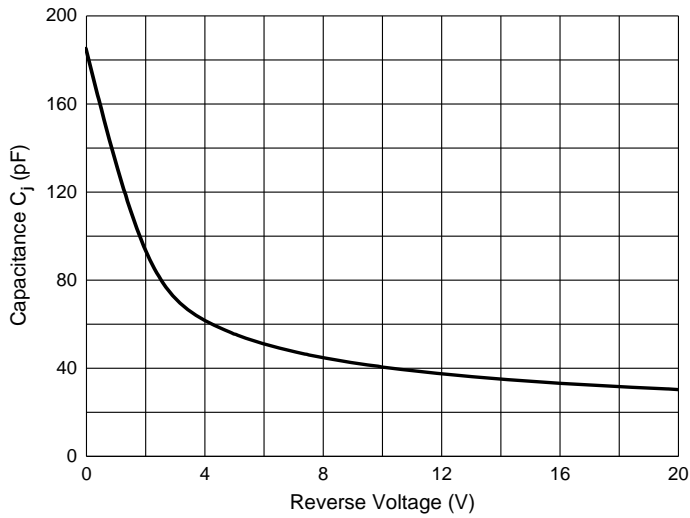
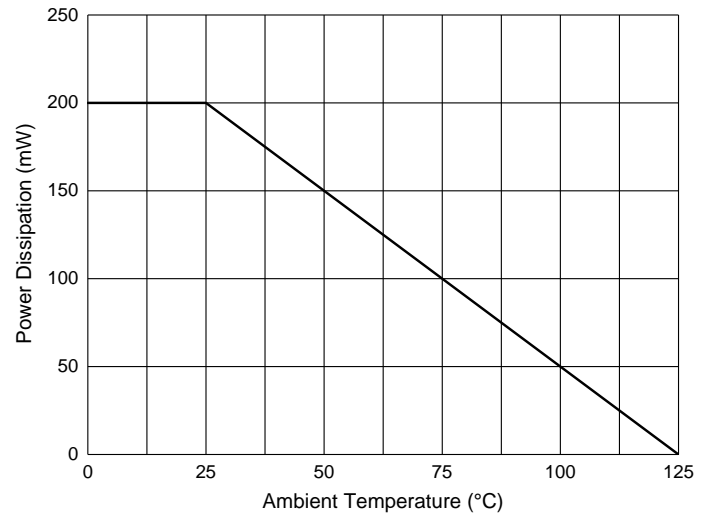


Fig. 4 - Power Derating Curve



## Ordering Information

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

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