

## Features

- Low Current Leakage
- Small Outline Surface Mount Package
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number	Device Marking	Reverse Voltage V <sub>R</sub>	$\begin{array}{c} \text{RMS Reverse Voltage} \\ V_{\text{R(RMS)}} \end{array}$
MMBD7000	M5C	100V	53V

Average Rectified Output Current	I <sub>o</sub>	200mA	
Peak Forward Surge Current	I <sub>FSM</sub>	0.5A	t=1s,Non-Repetitive
Power Dissipation	P <sub>TOT</sub>	350mW	

## Electrical Characteristics @ 25°C Unless Otherwise Specified

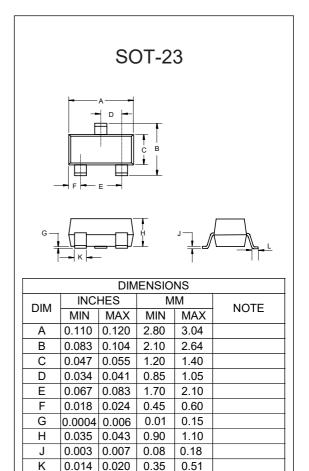
Reverse Breakdown Voltage	V <sub>BR</sub>	100V	Ι <sub>R</sub> =100μΑ
Maximum Forward Voltage	V <sub>F</sub>	820mV 1100mV	I <sub>FM</sub> =10.0mA I <sub>FM</sub> =100.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1.0µА 100µА 3.0µА	V <sub>R</sub> =50V, T <sub>j</sub> =25°C V <sub>R</sub> =50V, T <sub>j</sub> =125°C V <sub>R</sub> =100V
Maximum Junction Capacitance	CJ	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	4.0ns	I <sub>F</sub> =10mA, I <sub>R</sub> =10mA I <sub>rr</sub> =0.1*I <sub>R</sub> , R <sub>L</sub> =100Ω

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

## **Internal Structure**



# 350mW Dual Series Switching Diode



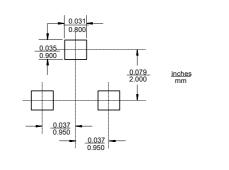
#### Suggested Solder Pad Layout

0.20

0.50

0.007 0.020

L

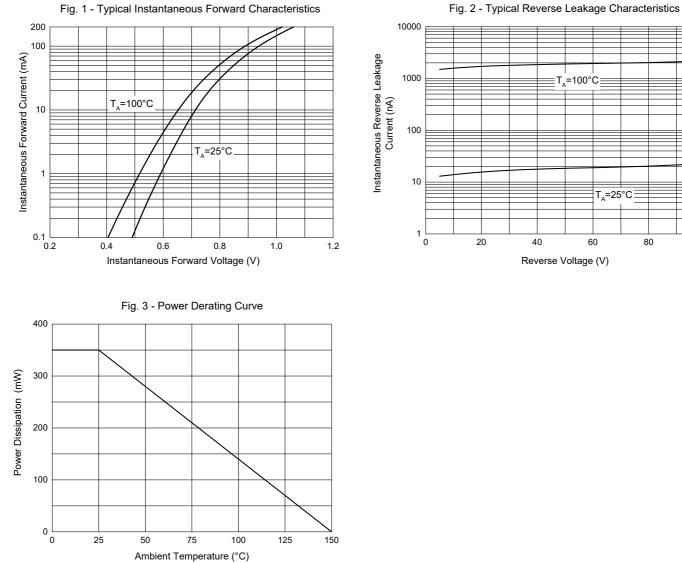


80

100



## **Curve Characteristics**



Rev.3-4-12012020



## **Ordering Information**

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

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