

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 _R	$\begin{array}{c} \text{RMS Reverse Voltage} \\ V_{\text{R(RMS)}} \end{array}$
MMBD7000	M5C	100V	53V

Average Rectified Output Current	I _o	200mA	
Peak Forward Surge Current	I _{FSM}	0.5A	t=1s,Non-Repetitive
Power Dissipation	P _{TOT}	350mW	

Electrical Characteristics @ 25°C Unless Otherwise Specified

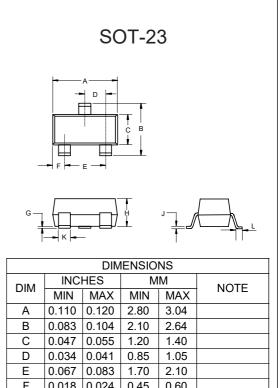
Reverse Breakdown Voltage	V _{BR}	100V	Ι _R =100μΑ
Maximum Forward Voltage	V _F	820mV 1100mV	I _{FM} =10.0mA I _{FM} =100.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1.0μΑ 100μΑ 3.0μΑ	V _R =50V, T _j =25°C V _R =50V, T _j =125°C V _R =100V
Maximum Junction Capacitance	CJ	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	4.0ns	I _F =10mA, I _R =10mA I _{rr} =0.1*I _R , R _L =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

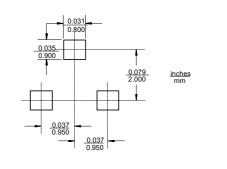


350mW Dual Series Switching Diode



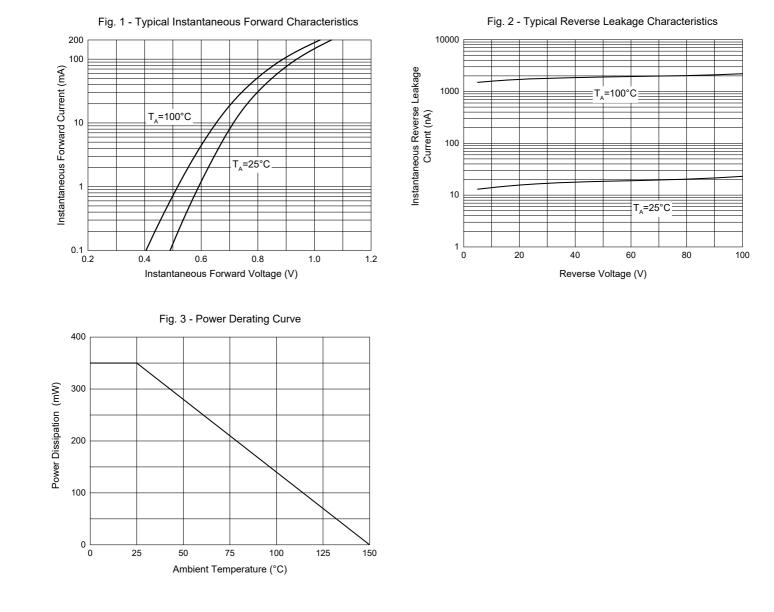
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
Ð	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
L	0.003	0.007	0.08	0.18	
К	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Curve Characteristics





Ordering Information

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

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