

Features

- Low Current Leakage
- Small Outline Surface Mount Package
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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	RMS Reverse Voltage V _{R(RMS)}
MMBD7000	M5C	100V	53V

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

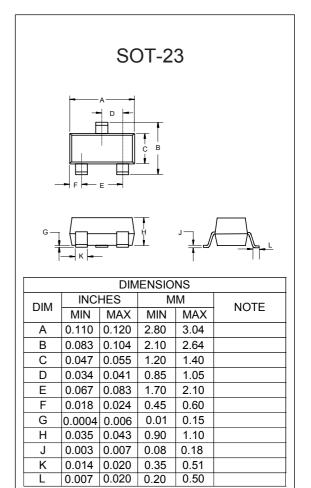
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	1.0µА 100µА 3.0µА	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

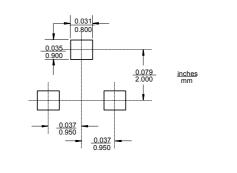
Internal Structure



350mW Dual Series Switching Diode

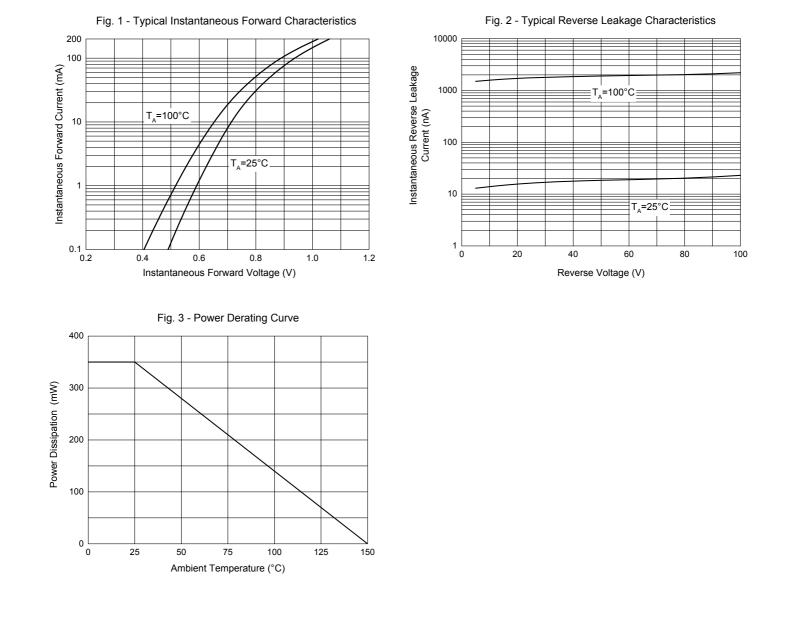


Suggested Solder Pad Layout





Curve Characteristics





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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