



**THE DATASHEET OF
MMBD7000-TP**





Micro Commercial Components

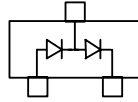


Micro Commercial Components
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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Current Leakage
- Halogen free available upon request by adding suffix "-HF"
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : M5C/ T3

Pin Configuration
Top View



Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 556°C/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

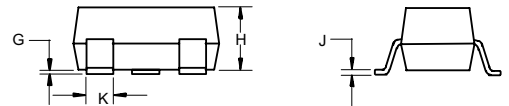
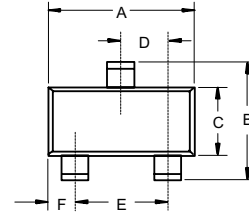
Reverse Voltage	V_R	100V	
Reverse Breakdown Voltage	V_{BR}	100V	$I_R=100\mu A$
Average Rectified Output Current	I_O	200mA	
Power Dissipation	P_{TOT}	225mW	
Peak Forward Surge Current	I_{FSM}	0.5A	$t=1s, Non-Repetitive$
Maximum Instantaneous Forward Voltage	V_F	820mV	$I_{FM} = 10mA;$ $T_J = 25^\circ C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0 μA 100 μA	$V_R=50Volts$ $T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Junction Capacitance	C_J	2pF	Measured at 1.0MHz, $V_R=0V$
Reverse Recovery Time	T_{rr}	4nS	$I_F=10mA$ $V_R = 0V$ $R_L=500\Omega$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

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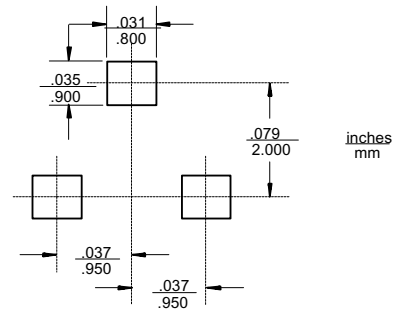
225mW 100Volt Dual Switching Diode

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



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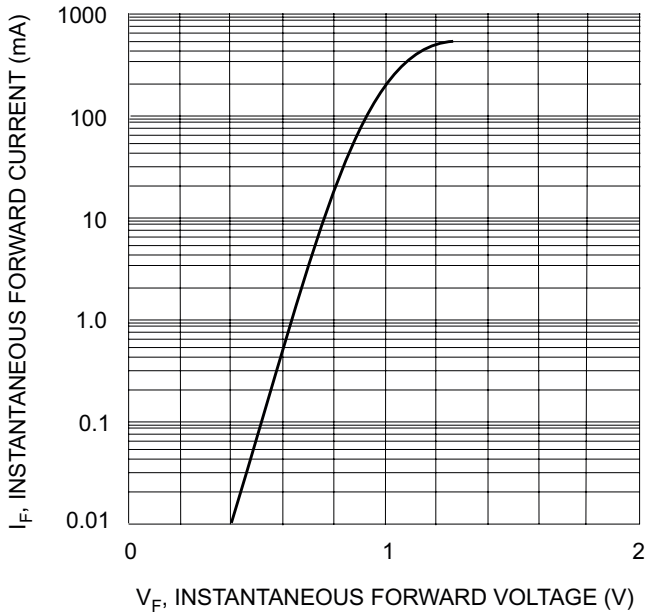


Fig. 1 Forward Characteristics

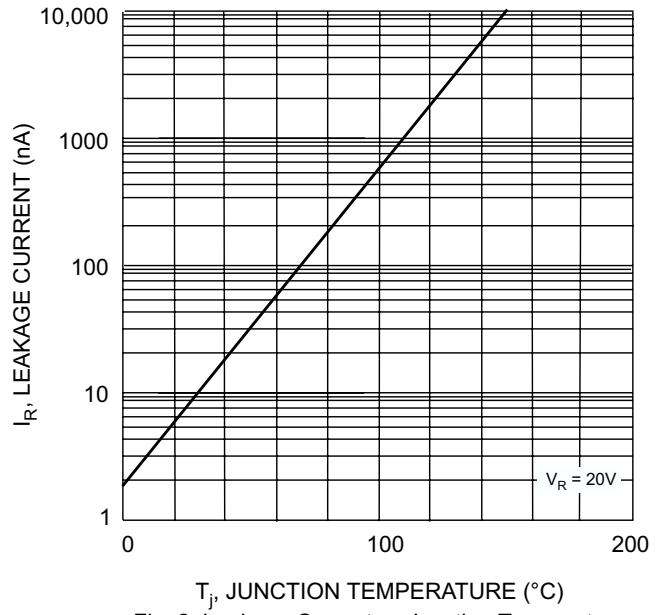


Fig. 2 Leakage Current vs Junction Temperature



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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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