

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

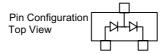
Phone: (818) 701-4933 (818) 701-4939 Fax:

MMBD7000

Low Current Leakage 350mW 100Volt Low Cost **Dual Switching Diode**

Features

- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Marking: M5C,T3



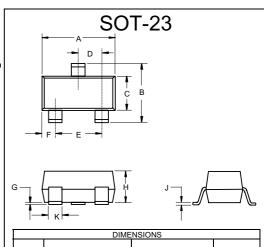
Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 357K/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

<u> </u>								
Reverse Voltage	V_R	100V						
Average Rectified	Ιο	150mA						
Output Current								
Power Dissipation	P_{TOT}	350mW						
Peak Forward Surge	I _{FSM}	1.0A	t=1s,Non-Repetitive					
Current								
Maximum								
Instantaneous	V_{F}	820mV	$I_{FM} = 10mA;$					
Forward Voltage			T _J = 25°C*					
Maximum DC			V _R =50Volts					
Reverse Current At	I_R	1.0μΑ	T _J = 25°C					
Rated DC Blocking		100μA	T _J = 125°C					
Voltage		,						
Typical Junction	CJ	2pF	Measured at					
Capacitance	-		1.0MHz, V _R =0V					
Reverse Recovery	T_{rr}	4nS	I _F =10mA					
Time			$V_R = 0V$					
			R_L =500 Ω					

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

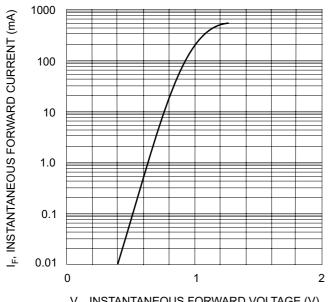


DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
C	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Ι	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

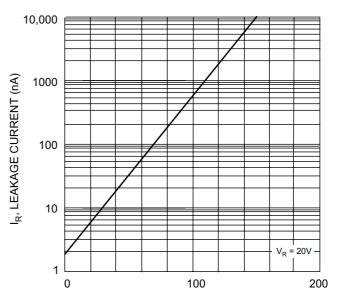
Suggested Solder Pad Layout .031 .800

MMBD7000





 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics



T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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