MMBD7000

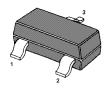
DUAL SURFACE MOUNT SWITCHING DIODE

Features

- Fast switching speed
- High Conductance

Applications

· For general purpose switching



Marking Code: **A7** SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		V _{RRM}	100	V
Reverse Voltage		V _R	100	V
Forward Current		I _F	200	mA
Non-repetitive Peak Forward Surge Current	at t = 1 µs at t = 1 s	I _{FSM}	2 1	A
Power Dissipation		P _d	350	mW
Junction and Storage Temperature Range		T _j , T _S	- 65 to + 150	°C

Characteristics at $T_a = 25 \ ^{\circ}C$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	$V_{(BR)R}$	100	-	V
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 150 \text{ mA}$	V _F	0.55 0.67 0.75 -	0.7 0.82 1.1 1.25	V
Reverse Current at $V_R = 50 V$ at $V_R = 100 V$ at $V_R = 50 V$, $T_j = 125 °C$	I _R	- - -	1 3 100	μΑ
Total Capacitance at V _R = 0 V, f = 1 MHz	C _T	-	2	pF
Reverse Recovery Time at I _F = I _R = 10 mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω	t _{rr}	-	4	ns

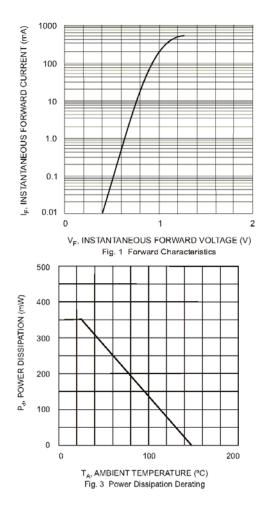


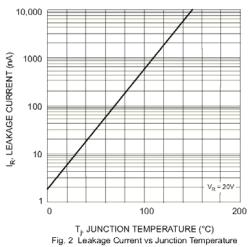


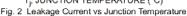
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Dated : 10/10/2008











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