#### 查询MMBD7000-7-F供应商

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# **MMBD7000**

SOT-23

Min

0.37

1.20

2.30

0.89

0.45

1.78

2.80

0.013

0.903

0.45

0.085

0°

All Dimensions in mm

Max

0.51

1.40

2.50

1.03

0.60

2.05

3.00

0.10

1.10

0.61

0.180

8°

Dim

Α

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С

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## **DUAL SURFACE MOUNT SWITCHING DIODE**

#### Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Lead Free/RoHS Compliant (Note 3)

#### Mechanical Data

- Case: SOT-23
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagram
- Marking: KJH (See Page 2)
- Weight: 0.008 grams (approximate)

#### Maximum Ratings @ TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit		
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	v		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	75	V		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V		
Forward Continuous Current (Note 1)	I <sub>FM</sub>	300	mA		
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	I <sub>FSM</sub>	2.0 1.0	А		
Power Dissipation (Note 1)	Pd	350	mW		
Thermal Resistance Junction to Ambient Air (Note 1)	R <sub>0JA</sub>	357	°C/W		
Operating and Storage Temperature Range	Tj, T <sub>STG</sub>	-65 to +150	°C		

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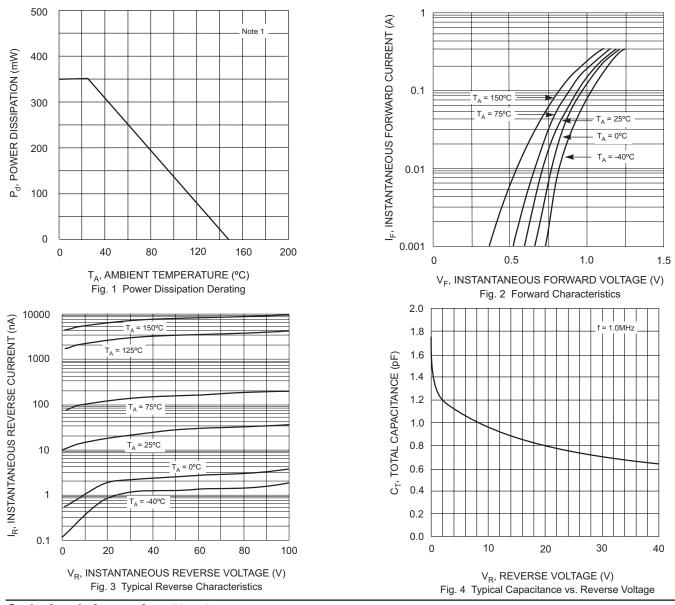
Pb

#### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

-					
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V <sub>(BR)R</sub>	75		V	I <sub>R</sub> = 100μA
Forward Voltage	VF	0.55 0.67 0.75	0.70 0.82 1.10 1.25	V	$ \begin{array}{l} I_F = 1.0 mA \\ I_F = 10 mA \\ I_F = 50 mA \\ I_F = 150 mA \end{array} $
Reverse Current (Note 2)	I <sub>R</sub>		1.0 3.0 100 25	μΑ μΑ μΑ nA	
Total Capacitance	CT		2.0	pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	_	4.0	ns	$\label{eq:lf} \begin{array}{l} I_F = I_R = 10 \text{mA}, \\ I_{rr} = 0.1 \text{ x } I_R, \ R_L = 100 \Omega \end{array}$

Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
Short duration test pulse used to minimize self-heating effect.
Case of the self-heating effect.





Ordering Information (Note 4)

	Device	Packaging	Shipping
N	1MBD7000-7-F	SOT-23	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

### **Marking Information**

			k	(JH		$\sum_{Y}   Y$	KJH = Product Type Marking Code YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September								
Date Code Ke	у		Т												
Year	1999	2000	2001	2002	2003	2004	2005	2006	20	07 20	008 2	2009	2010	2011	2012
Code	К	L	М	Ν	Р	R	S	Т	U	J	V	W	Х	Y	Z
Mont	h	Jan	Feb	March	Apr	May	Jun	Ju	I	Aug	Sep	00	t	Nov	Dec
Cod	е	1	2	3	4	5	6	7		8	9	0		Ν	D



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