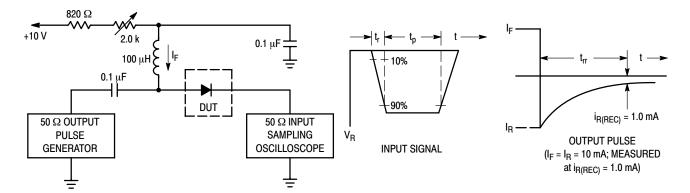
MMBD7000LT1

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted) **(EACH DIODE)**

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS	<u>.</u>			
Reverse Breakdown Voltage (I _(BR) = 100 μAdc)	V _(BR)	100	_	Vdc
Reverse Voltage Leakage Current $(V_R = 50 \text{ Vdc})$ $(V_R = 100 \text{ Vdc})$ $(V_R = 50 \text{ Vdc}, 125^{\circ}\text{C})$	I _R I _{R2} I _{R3}	- - -	1.0 3.0 100	μAdc
Forward Voltage $(I_F = 1.0 \text{ mAdc})$ $(I_F = 10 \text{ mAdc})$ $(I_F = 100 \text{ mAdc})$	V _F	0.55 0.67 0.75	0.7 0.82 1.1	Vdc
Reverse Recovery Time (I _F = I _R = 10 mAdc) (Figure 1)	t _{rr}	-	4.0	ns
Capacitance (V _R = 0 V)	С	_	1.5	pF



Notes: 1. A 2.0 k Ω variable resistor adjusted for a Forward Current (I_F) of 10 mA.

- 2. Input pulse is adjusted so $I_{R(peak)}$ is equal to 10 mA.
- 3. t_p » t_{rr}

Figure 1. Recovery Time Equivalent Test Circuit

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CURVES APPLICABLE TO EACH DIODE

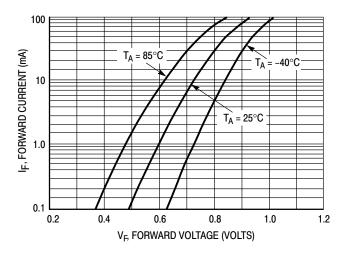


Figure 2. Forward Voltage

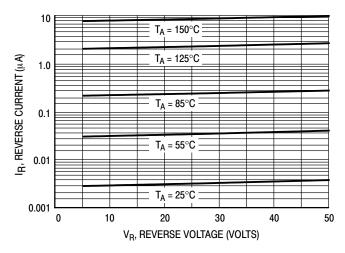


Figure 3. Leakage Current

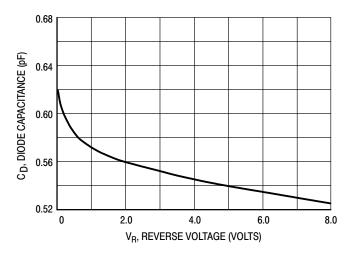
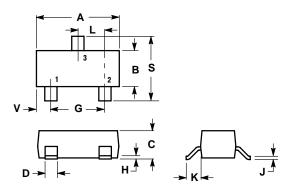


Figure 4. Capacitance

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PACKAGE DIMENSIONS

SOT-23 (TO-236AB) CASE 318-08 **ISSUE AH**



NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF
- BASE MATERIAL. 318-01 THRU -07 AND -09 OBSOLETE, NEW STANDARD 318-08.

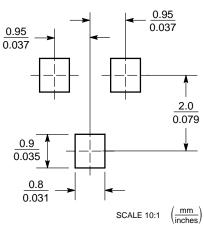
	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.1102	0.1197	2.80	3.04	
В	0.0472	0.0551	1.20	1.40	
С	0.0350	0.0440	0.89	1.11	
D	0.0150	0.0200	0.37	0.50	
G	0.0701	0.0807	1.78	2.04	
Н	0.0005	0.0040	0.013	0.100	
J	0.0034	0.0070	0.085	0.177	
K	0.0140	0.0285	0.35	0.69	
L	0.0350	0.0401	0.89	1.02	
S	0.0830	0.1039	2.10	2.64	
V	0.0177	0.0236	0.45	0.60	

STYLE 8:

PIN 1. ANODE

- NO CONNECTION
- CATHODE

SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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