

DATA SHEET

MMBD717WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 20 Volts CURRENT 200mA

FEATURES

- Very Low V_F: 0.32V (Typ) at I_F = 1mA
- Low Capacitance : 2.5pF (Typ) at $V_R = 1V$
- Extremely Fast Switching Speed
- Both normal and Pb free product are available :

Normal: 80~95% Sn, 5~20%% Pb

Pb free: 99% Sn above

MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Approx. Weight: 0.0041 gram

Marking: P70



Ratings at 25°C ambient temperature unless otherwise specified.

SOD-323 Unit: inch	(mm)
078(1.95) 088(1.75) (62.1) (62.1) (62.1) (62.7)	

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_R	20	V
Peak Reverse Voltage	V_{RRM}	20	V
Continuous Forward Current	I _F	0.2	Α
Power Dissipation (1)	P _{TOT}	200	mW
Thermal Resistance , Junction to Ambient (1)	R _{OJA}	625	°C/W
Junction Temperature	TJ	-50 to 125	°C
Storage Temperature	T _{STG}	-50 to 150	°C

Notes : 1. FR-5 Board = $1.0 \times 0.75 \times 0.062$ in.

ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	I _R =10uA	20	-	-	V
Reverse Current	I _R	V _F =10V	-	-	1.0	uA
Forward Voltage	V _F	I _F = 1.0mA	-	-	0.37	V
Total Capacitance	Ст	V _R =1V, f =1.0MHz	-	-	2.5	pF

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ELECTRICAL CHARACTERISTICS CURVES (each diode)

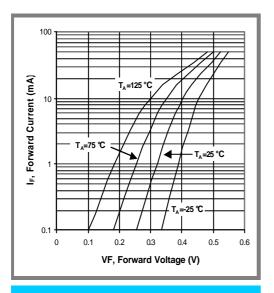


Figure 1. Typical Forward Voltage

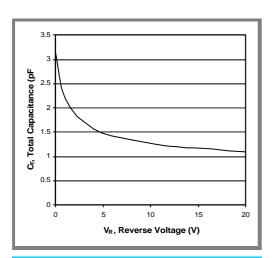


Figure 3. Typical Total Capacitance

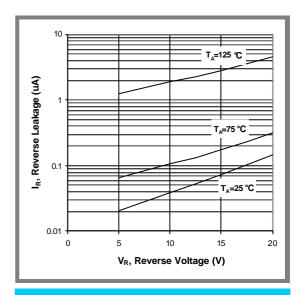


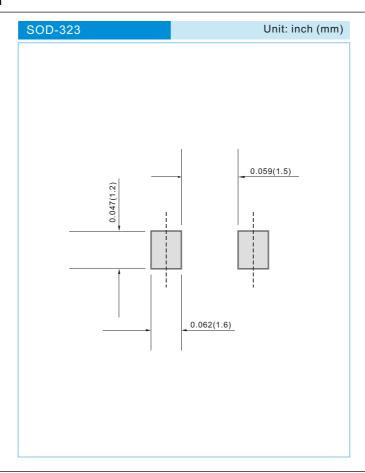
Figure 2. Typical Reverse Current

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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