



DATA SHEET

MMBD717W/AW/CW/SW

COMMON ANODE SCHOTTKY BARRIER DIODES

VOLTAGE 20 Volts CURRENT 0.2 Amperes

FEATURES

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

Extremely low forward voltage reduces conduction loss.

Miniature surface mount package is excellent for hand held and portable applications where space is limited.

Both normal and Pb free product are available :

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

Pb free: 99% Sn above can meet Rohs environment substance

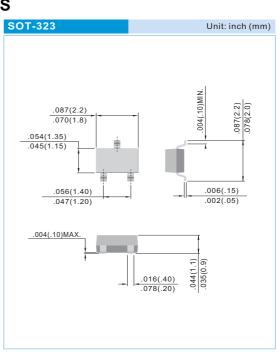
directive request

MECHANICAL DATA

Case: SOT-323, Plastic

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

Approx. Weight: 4.8mg



MAXIMUM RATINGS (TJ = 125 °C unless otherwise noted)

RATING	SYMBOL	VALUE	UNIT
Reverse Voltage	V_R	20	Volts
Forward Power Dissipation @ T _A = 25 ^O C	1	200	mW
Derate above 25 ^o C	P_F	1.6	mW/ ^O C
Operating Junction Temperature Range	TJ	-50 to 150	
Storage Temperature Range	T _{STG}	-50 to 150	

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

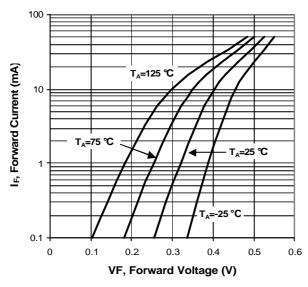
ТҮРЕ		MMBD717W	MMBD717AW	MMBD717CW	MMBD717SW
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage (I _R =10u A)	$V_{(BR)R}$	70	-	-	V
Total Capacitance (V _R =1.0V,f=1.0MHz)	Ст	-	-	0.2	uA
Reverse Leakage (V _R =10V) (For each individual diode while the second diode is unbiased)	I _R	-	- -	0.5 1.0	V
Forward Voltage (I _F =1.0 m Adc)	V _F	-	-	1.0	Pf
Circuit Figure		SINGLE	COMMONANODE	COMMONCATHODE	SERIES

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ELECTRICAL CHARACTERISTICS CURVES (each diode)



T_A=125 °C

T_A=75 °C

T_A=75 °C

T_A=25 °C

V_R, Reverse Voltage (V)

Figure 1. Typical Forward Voltage

Figure 2. Typical Reverse Current

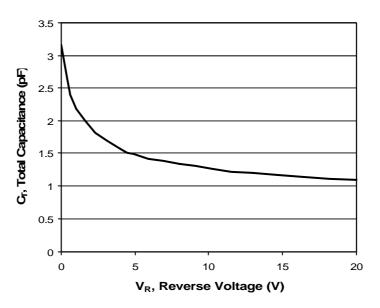


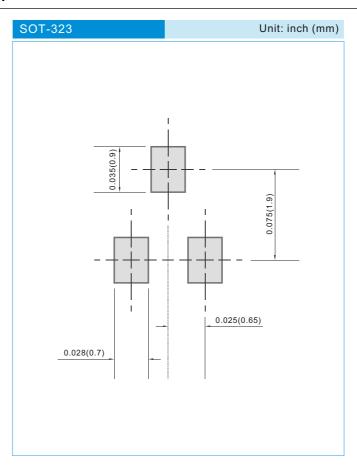
Figure 3. Typical Total Capacitance

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K 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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