



MMBD717W SERIES

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 20 Volts **CURRENT** 200 mA

SOT-323 Unit: inch (mm)

FEATURES

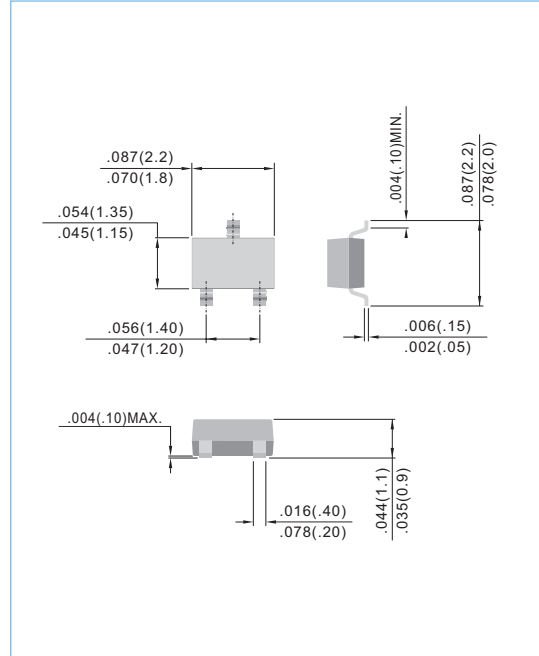
- Very Low V_F : 0.37V (Typ) at $I_F = 1\text{mA}$
- Low Capacitance: 2.5 pF (Max) at $V_R=0\text{V}$
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.041 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MMBD717W	MMBD717AW	MMBD717CW	MMBD717SW	UNITS
Marking Code	-	P70	P72	P73	P74	-
Maximum Reverse Voltage	V_R	20				V
Peak Reverse Voltage	V_{RRM}	20				V
Maximum Forward Current	I_F	0.2				A
Power Dissipation (Note 1)	P_{TOT}	200				mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	556				°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150				°C
Circuit Figure	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

Note : 1. FR-4 Board = 70 x 60 x 1mm.

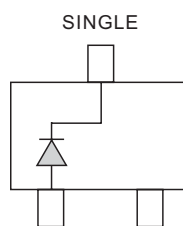


FIG.14

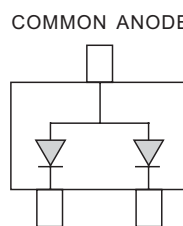


FIG.15

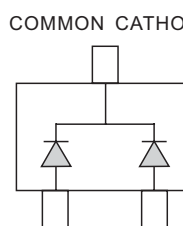


FIG.16

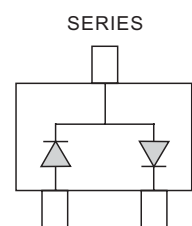


FIG.17



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ELECTRICAL CHARACTERISTICS (each diode) ($T_J = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\ \mu\text{A}$	20	--	--	V
Reverse Leakage Current	I_R	$V_R=10\ \text{V}$	--	--	1.0	μA
Forward Voltage	V_F	$I_F=1.0\text{mA}$	--	--	0.37	V
Total Capacitance	C_T	$V_R=0\text{V}, f=1.0\text{MHz}$	--	--	2.5	pF

ELECTRICAL CHARACTERISTICS CURVE

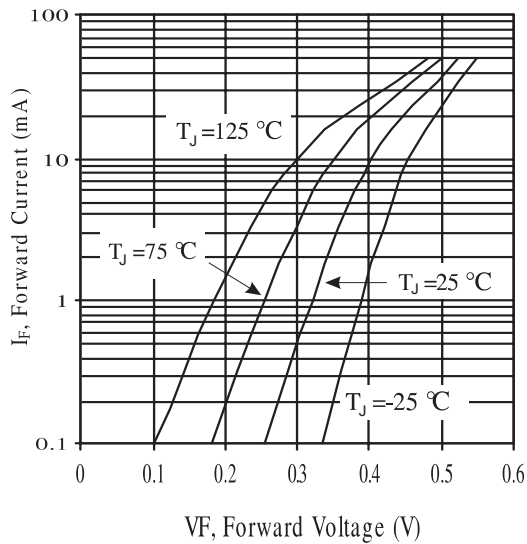


Figure 1. Typical Forward Voltage

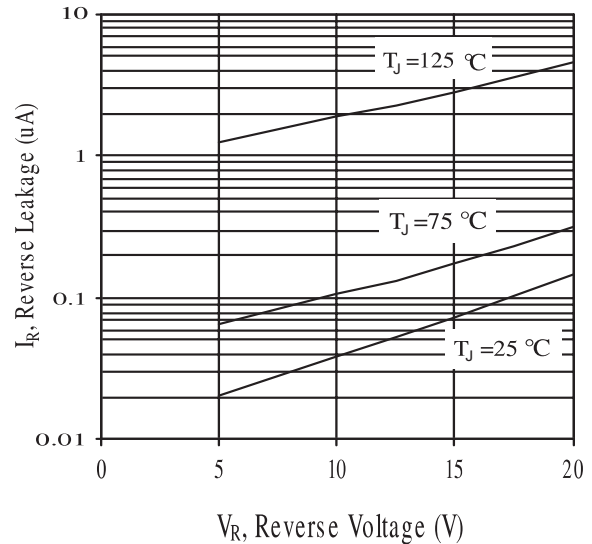


Figure 2. Typical Reverse Current

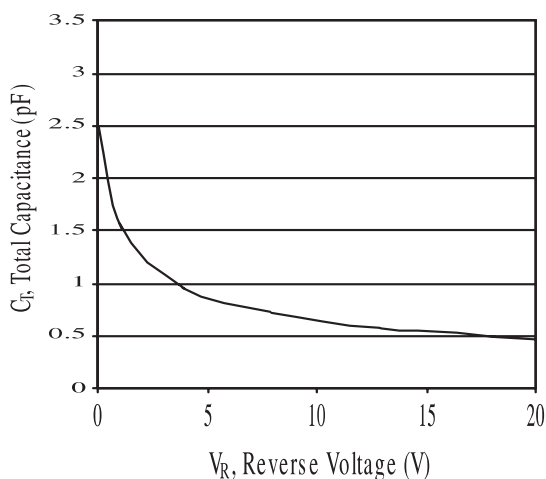
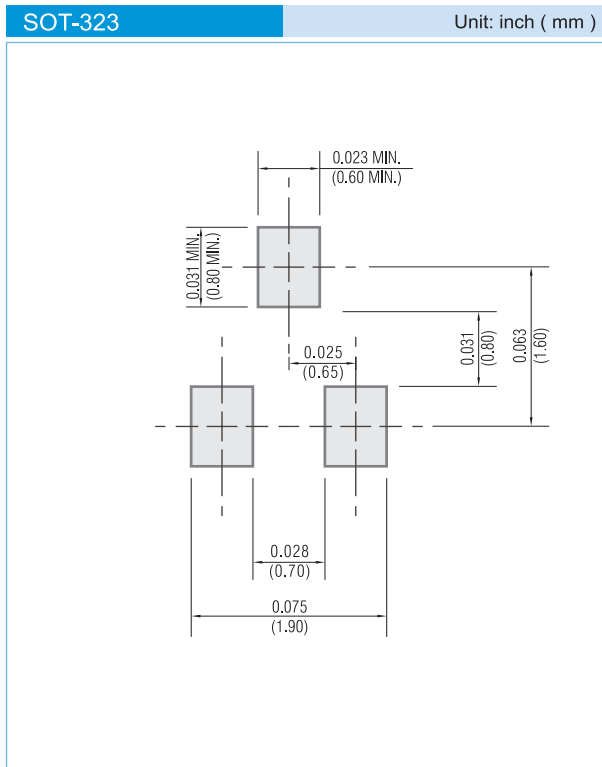


Figure 3. Typical Total Capacitance



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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