



MMBD717 SERIES

SURFACE MOUNT SCHOTTKY DIODES

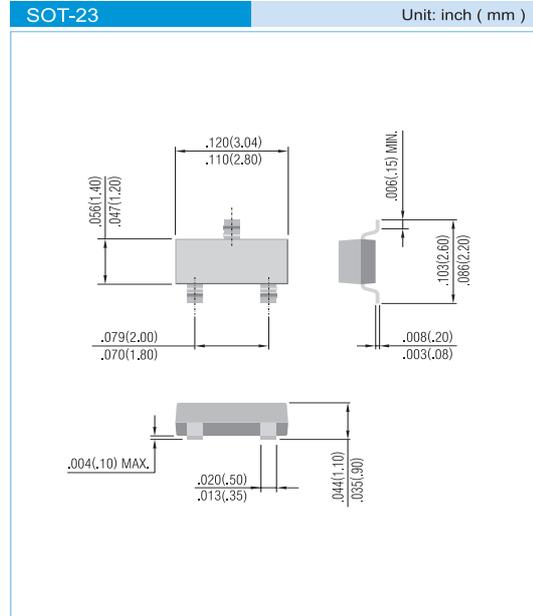
VOLTAGE 20 Volts **CURRENT** 200 mA

FEATURES

- Very Low V_F : 0.32V (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-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.008 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	MMBD717	MMBD717A	MMBD717C	MMBD717S	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
Junction Temperature	T_J	-55 to 150				°C
Storage Temperature at Temp=25°C	T_{STG}	-55 to 150				°C
Circuit Figure	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

Note:

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

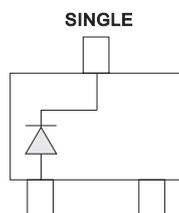


Fig.14

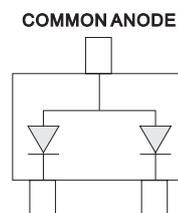


Fig.15

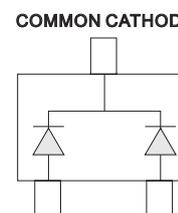


Fig.16

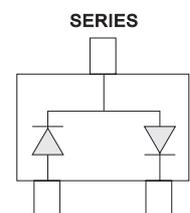


Fig.17



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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_J	$V_R=1\text{V}, f=1.0\text{MHz}$	-	-	2.5	pF

ELECTRICAL CHARACTERISTICS CURVE

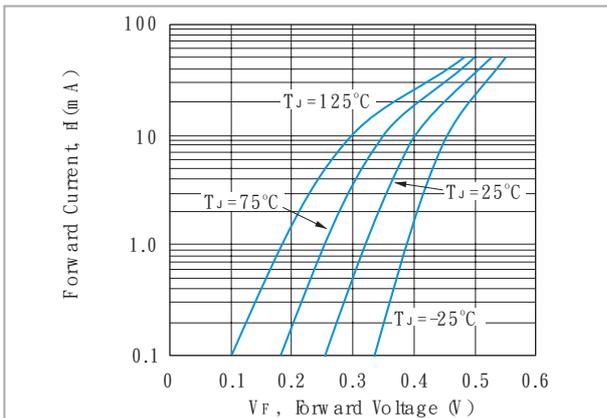


Fig. 1 Typical Forward Voltage

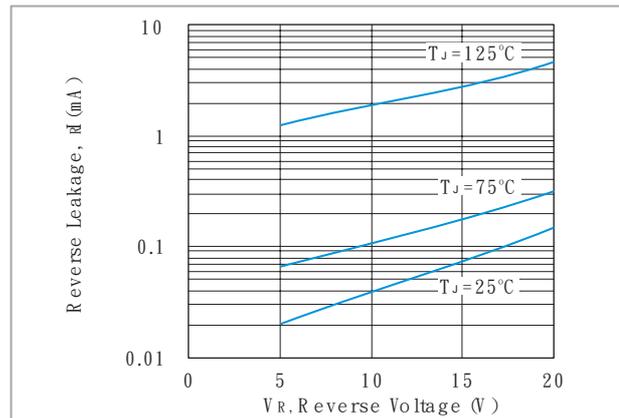


Fig. 2 Typical Reverse Leakage

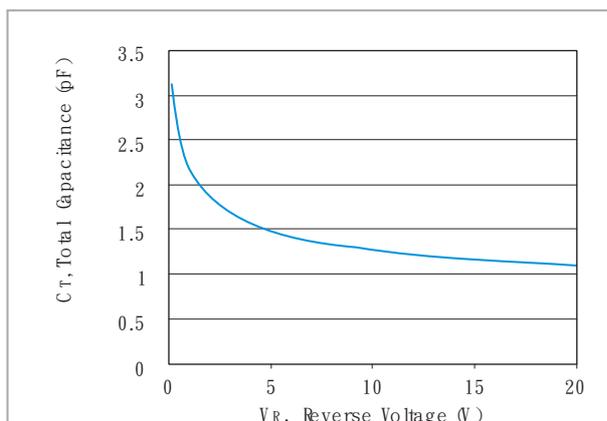
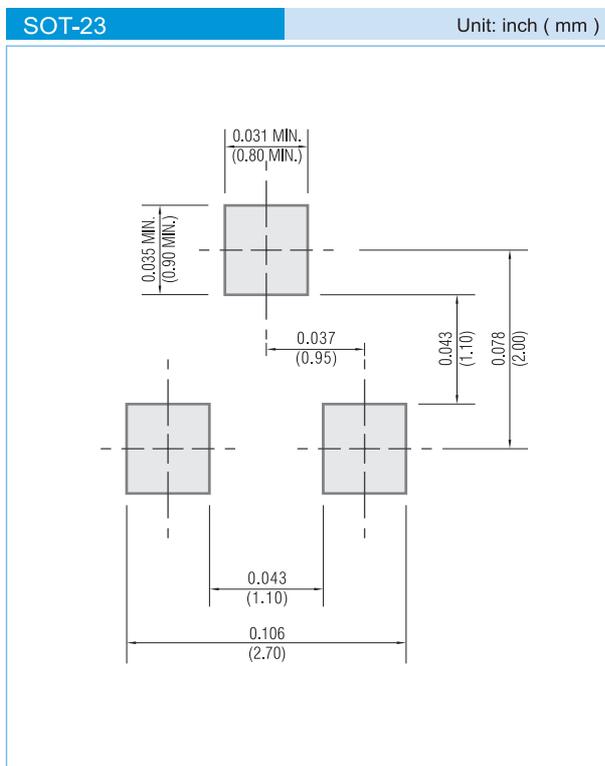


Fig. 3 Typical Total Capacitance



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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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