MMBD717WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 20 Volt **CURRENT** 200 mA

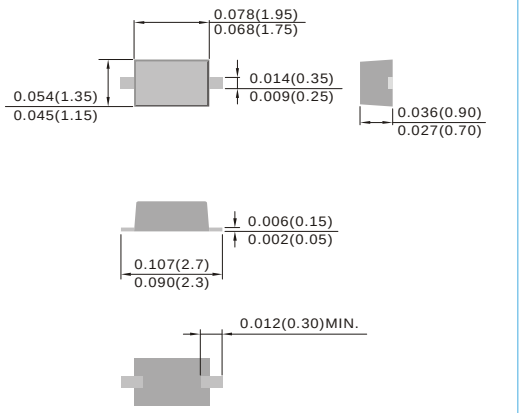
FEATURES

- Very Low V_F: 0.32V (Typ) at I_F = 1mA
- Low Capacitance: 2.5 pF (Max) at V_R=0V
- Extremely Fast Switching Speed
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams

SOD-323 Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL AHARACTERISTICS

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	Value	Units
Marking Code	-	P70	-
Maximum Reverse Voltage	V_R	20	V
Peak Reverse Voltage	V_{RRM}	20	V
Maximum Forward Current	I_F	0.2	A
Power Dissipation (1)	P_{TOT}	200	mW
Thermal Resistance , Junction to Ambient (1)	$R_{\theta JA}$	625	°C/W
Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Note:

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

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ELECTRICAL CHARACTERISTICS (each diode) (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	I_R=10μA	20	-	-	V
Reverse Leakage Current	I_R	V_R=10V	-	-	1	μA
Forword Voltage	V_F	I_F=1mA	-	-	0.37	V
Total Capacitance	C_J	V_R=1V, f=1MHz	-	-	2.5	pF

ELECTRICAL CHARACTERISTICS CURVE

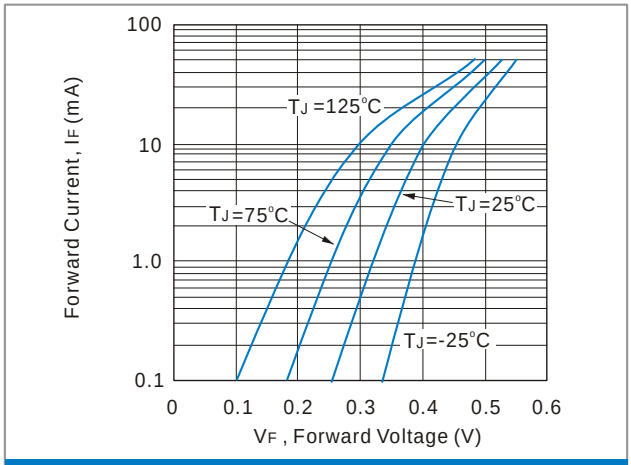

Fig. 1. Typical Forward Voltage

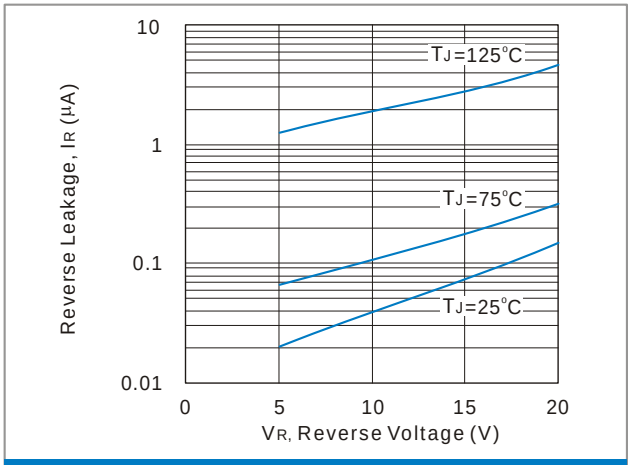

Fig. 2. Typical Reverse Leakage

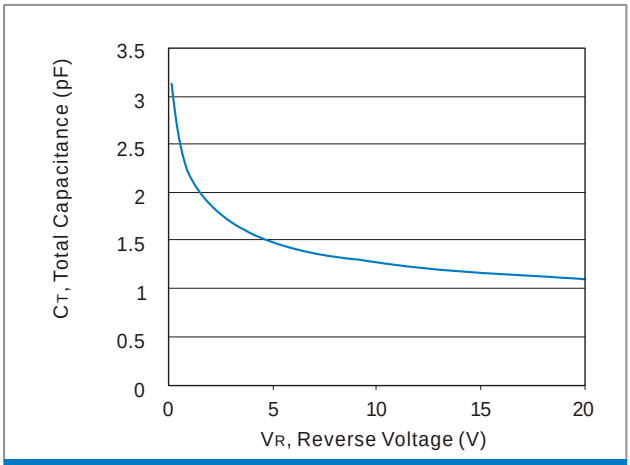

Fig. 3. Typical Total Capacitance

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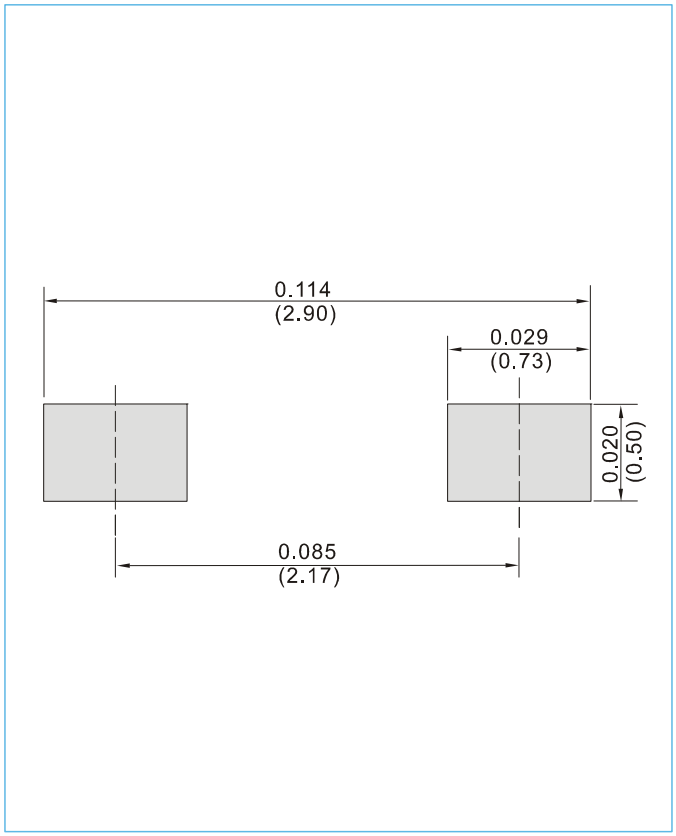
MOUNTING PAD LAYOUT

SOD-323 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

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Part No_packing code_Version

MMBD717WS_R1_00001
MMBD717WS_R2_00001

For example :

RB500V-40_R2_00001

- Part No.
- Packing type means T/R
- Packing size code means 13"
- Version code means HF
- Serial number

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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