



DATA SHEET

MMBD770WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts **CURRENT** 250mA

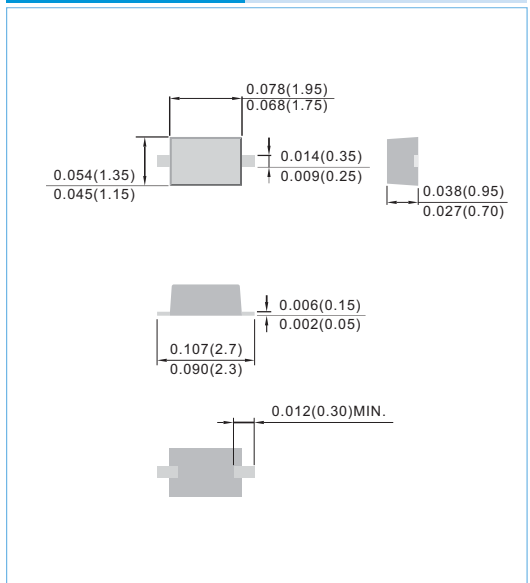
FEATURES

- Extremely low minority carrier lifetime
- Low capacitance (0.4pF @ 20V typical)
- Low reverse leakage (30nA @ 35V typical)
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2002/95/EC directives.
- 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: 0.0048 gram
 Marking : 770

SOD-323 Unit: inch (mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_R	70	V
Peak Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	0.25	A
Power Dissipation ⁽¹⁾	P_{TOT}	180	mW
Thermal Resistance , Junction to Ambient ⁽¹⁾	$R_{QJ A}$	556	/W
Junction Temperature	T_J	-55 to 125	
Storage Temperature	T_{STG}	-55 to 150	

Notes : 1. FR-4 Board = 70 × 60 × 1mm.

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	70	-	-	V
Reverse Current	I_R	$V_R=35\text{V}$	-	-	0.2	μA
Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$	-	-	0.5 1.0	V
Typical Capacitance	C_T	$V_R=20\text{V}$, $f=1\text{MHz}$	-	-	1.0	pF



CHARACTERISTIC CURVES

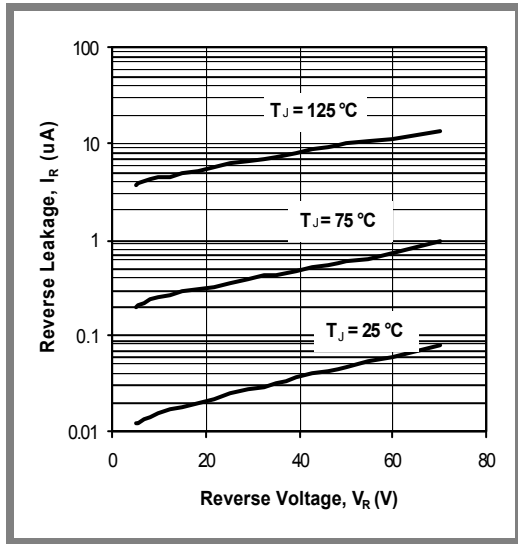


Fig. 1. Typical Reverse Leakage

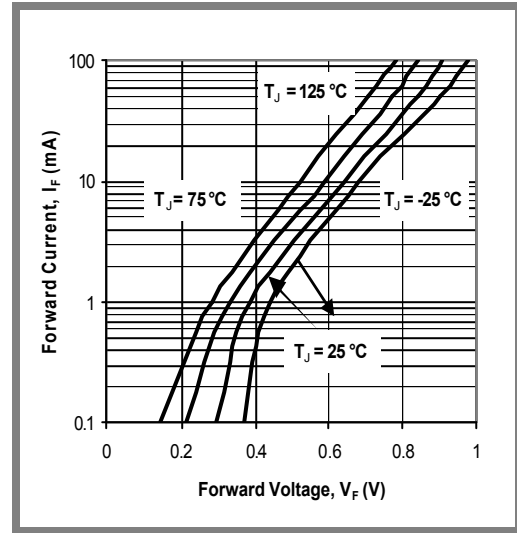


Fig. 2. Typical Forward Voltage

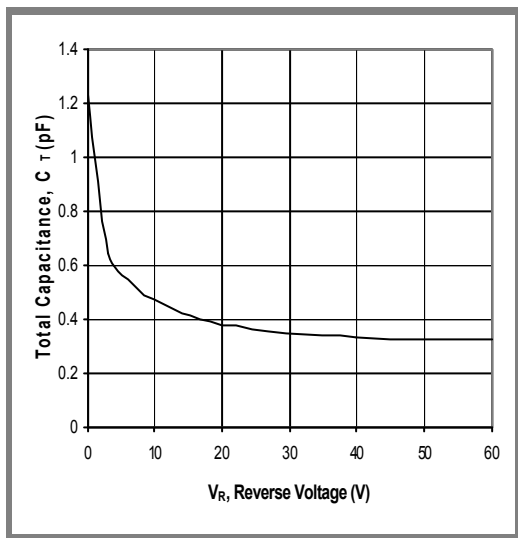
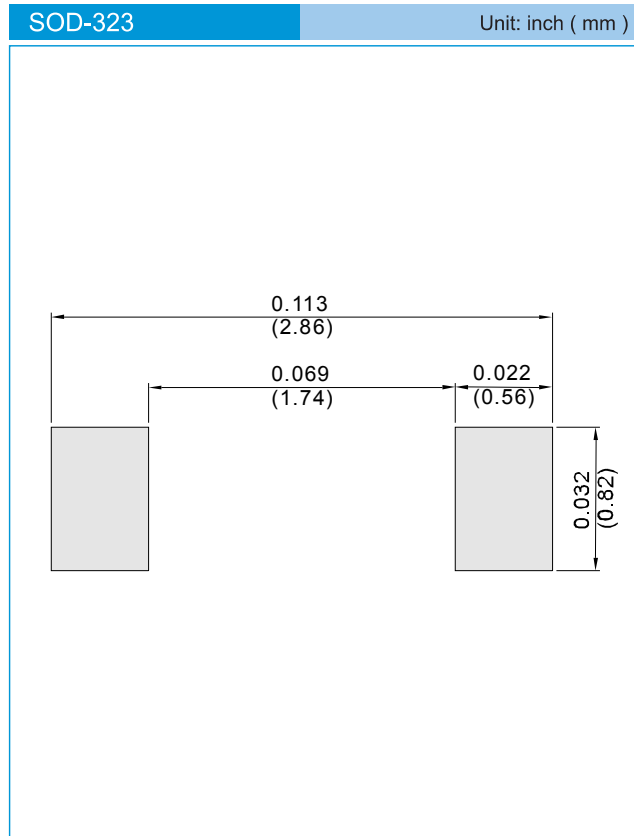


Fig. 3. Typical Total Capacitance



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel



MMBD770WS

Part No_packing code_Version

MMBD770WS_R1_00001

MMBD770WS_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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