MMBD770WS

SURFACE MOUNT SCHOTTKY DIODE

Voltage Range 70 Volts
Power 200mWatts

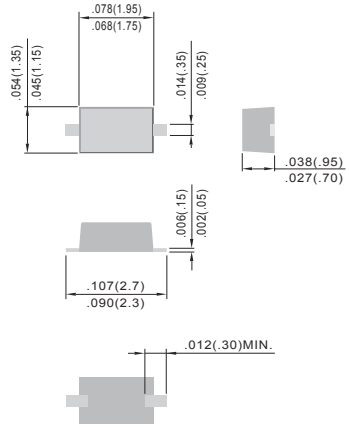
Features

- 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
- Both normal and Pb free product are available :
  Normal : 80~95% Sn, 5~20%% Pb
  Pb free: 99% Sn above

Mechanical Data

Case: SOD-323, Plastic
Terminals: Solderable per MIL-STD-202G, Method 208
Approx. Weight: 0.0048 gram
Marking : 770

SOD-323



Dimensions in millimeters

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	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)	$R\theta_{JA}$	556	°C/W
Junction Temperature	T_J	-50 to 125	°C
Storage Temperature	T_{STG}	-50 to 150	°C

Electrical Characteristics (T_J =25°C, unless otherwise noted)

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

NOTES:

1.FR-5 Board=1.0 x 0.75 x 0.062 in.

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Characteristic Curves

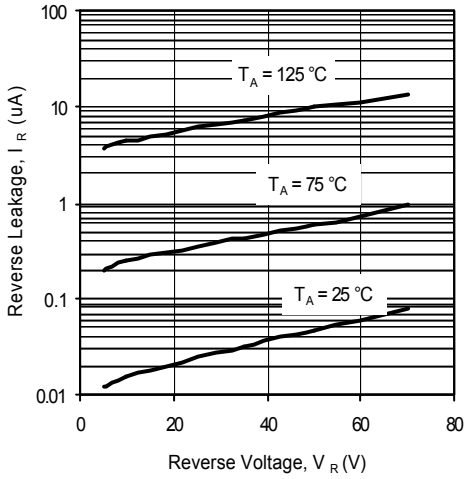

Fig.1 Typical Reverse Leakage

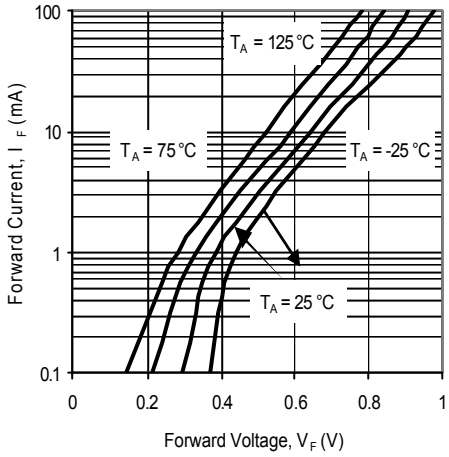

Fig.2 Typical Forward Voltage

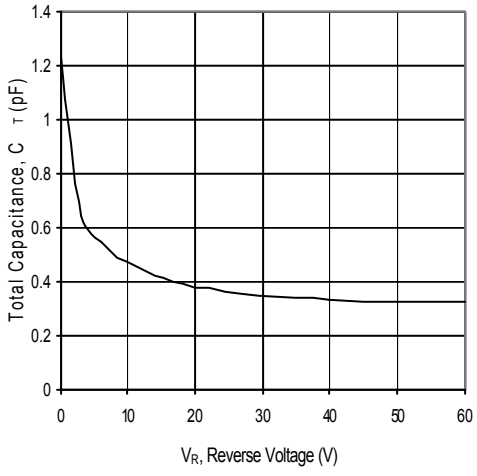

Fig.3 Typical Total Capacitance

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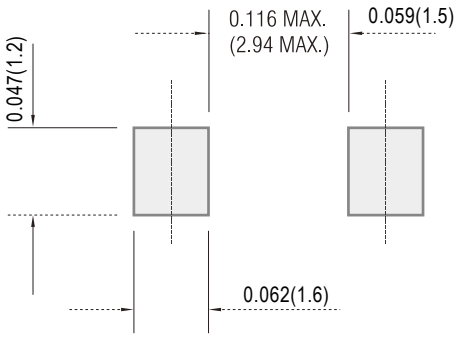
Mounting Pad Layout

SOD-323



Dimensions in millimeters

Order Information

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Ree

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.