



DATA SHEET

MMBD770W

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts POWER 200mA

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

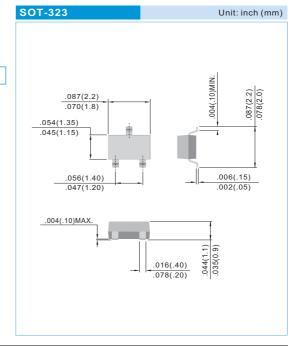
MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Approx. Weight: 0.0048 gram

Marking: 770



MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

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	Α
Power Dissipation (1)	P _{TOT}	180	mW
Thermal Resistance , Junction to Ambient (1)	R _{OJA}	556	°C/W
Junction Temperature	TJ	-50 to 125	°C
Storage Temperature	T _{STG}	-50 to 150	°С

Notes: 1. FR-5 Board = $1.0 \times 0.75 \times 0.062$ in.

ELECTRICAL CHARACTERISTICS (T_A=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	Ст	V _R =20V, f =1MHz	-	-	1.0	pF

STAD-JAN.22.2005 PAGE . 1





CHARACTERISTIC CURVES

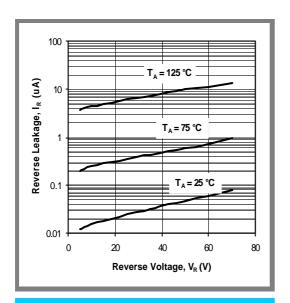


Fig. 1. Typical Reverse Leakage

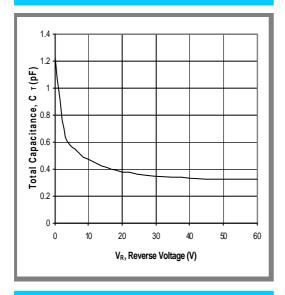


Fig. 3. Typical Total Capacitance

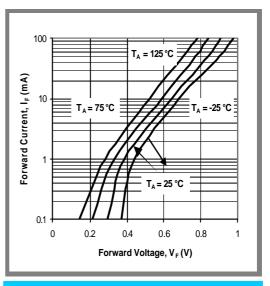


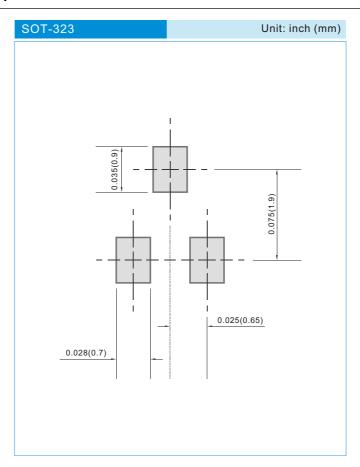
Fig. 2. Typical Forward Voltage

STAD-JAN.22.2005 PAGE . 2





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

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.

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STAD-NOV.15.2004 PAGE . 3