



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
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-323, Plastic

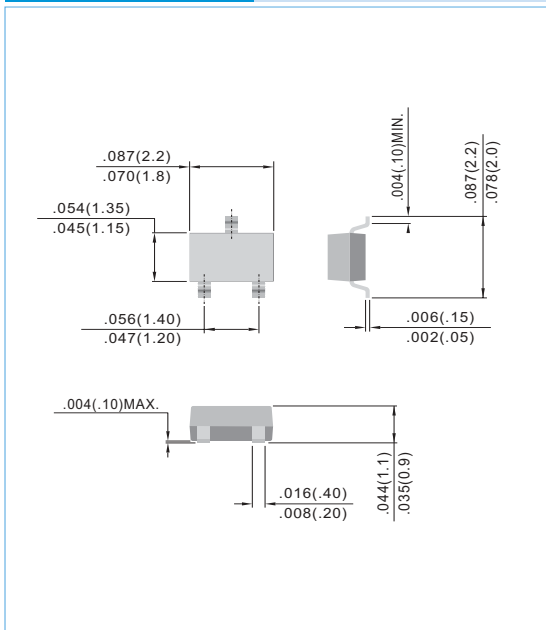
Terminals: Solderable per MIL-STD-202G, Method 208

Approx. Weight: 0.0048 gram

Marking : 770

SOT-323

Unit: inch (mm)



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	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

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

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	$V_F=35\text{V}$	-	-	0.2	μA
Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$	-	-	0.5 1.0	V
Total Capacitance	C_T	$V_R=20\text{V}, f=1\text{MHz}$	-	-	1.0	pF



CHARACTERISTIC CURVES

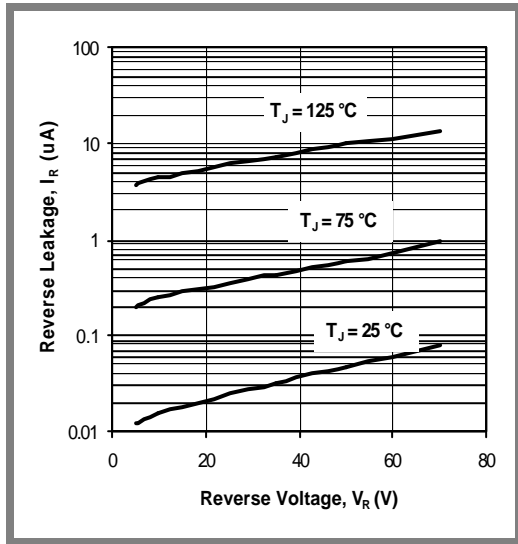


Fig. 1. Typical Reverse Leakage

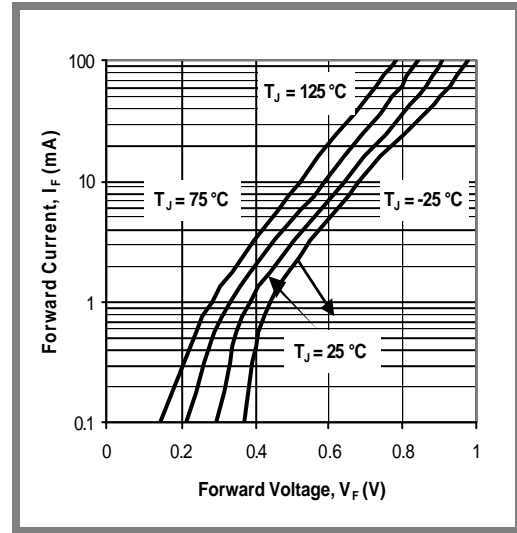


Fig. 2. Typical Forward Voltage

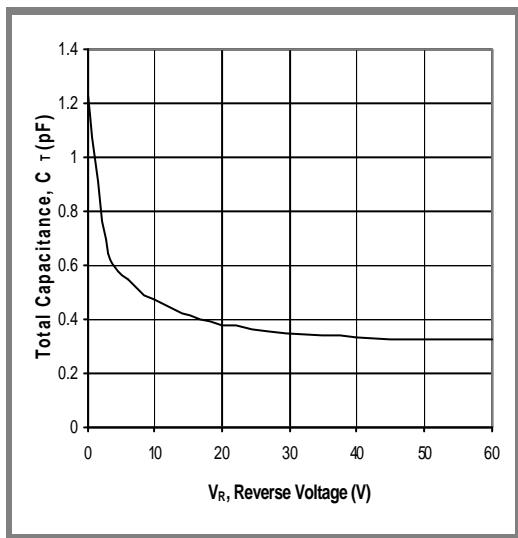
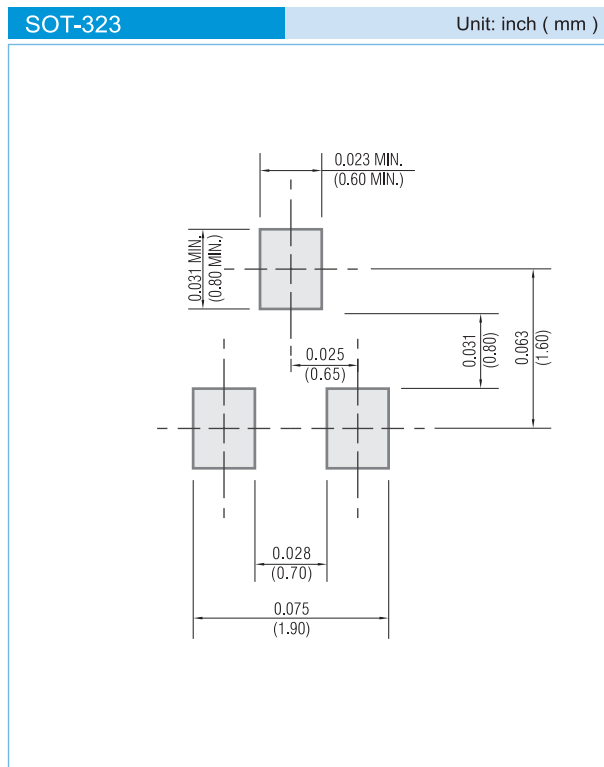


Fig. 3. Typical Total Capacitance



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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