



MMBD452

SURFACE MOUNT SCHOTTKY DIODE

Voltage Range 30 Volts
Power 200mWatts

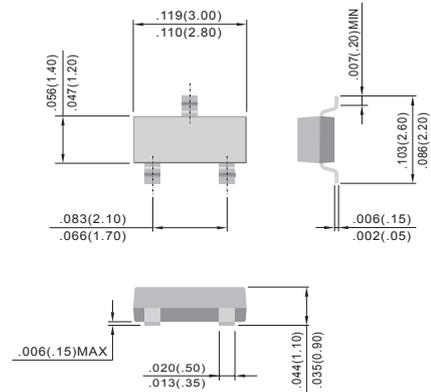
Features

- * Low Capacitance: 1.5 pF (Max) at $V_R=15V$
- * Very Low V_F : 0.36V (Typ) at $I_F = 1mA$
- * Extremely Fast Switching Speed
- * Isolated, Schottky Pairs in Small Surface Mount Package

Mechanical Data

Case: SOT-23 plastic
Terminals: Solderable per MIL-STD-202, Method 208
Approx Weight: 0.008 gram
Marking: 452

SOT-23



Dimensions in millimeters

Absolute Ratings

PARAMETER	SYMBOL	Value	UNIT
Maximum Reverse Voltage	V_R	30	V
Peak Reverse Voltage	V_{RRM}	30	V
Maximum Forward Current	I_F	0.2	A

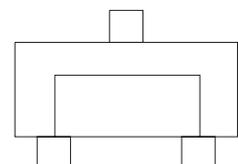
Thermal Characteristics

PARAMETER	SYMBOL	Value	UNIT
Power Dissipation (Note 1)	P_{tot}	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	556	$^{\circ}C/W$
Junction Temperature	T_j	-55 to 125	$^{\circ}C$
Storage Temperature	T_{stg}	-55 to 150	$^{\circ}C$

NOTES:

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

SERIES





MMBD452

SURFACE MOUNT SCHOTTKY DIODE

Voltage Range 30 Volts
Power 200mWatts

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

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	V _(BR)	IR=10 uA	30			V
Reverse Leakage Current	RI	VR=25V			0.2	uA
Forward Voltage	FV	IF=1.0mA			0.45	V
Forward Voltage	FV	IF=10mA			0.6	V
Total Capacitance	C _T	VR=15V, f=1.0MHz			1.5	pF

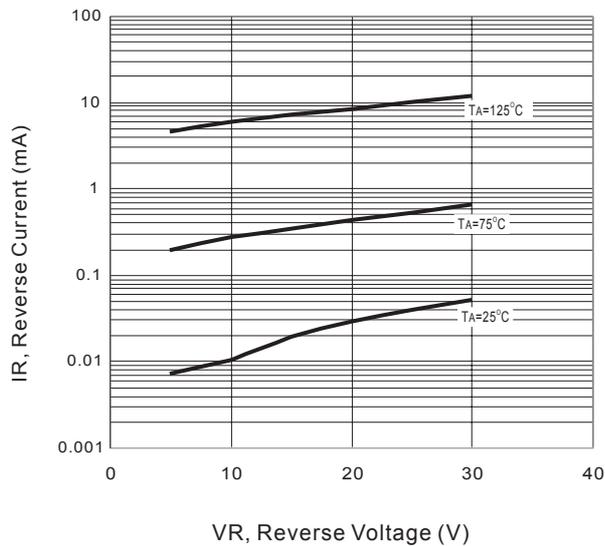


Fig.1 Typical Reverse Characteristics

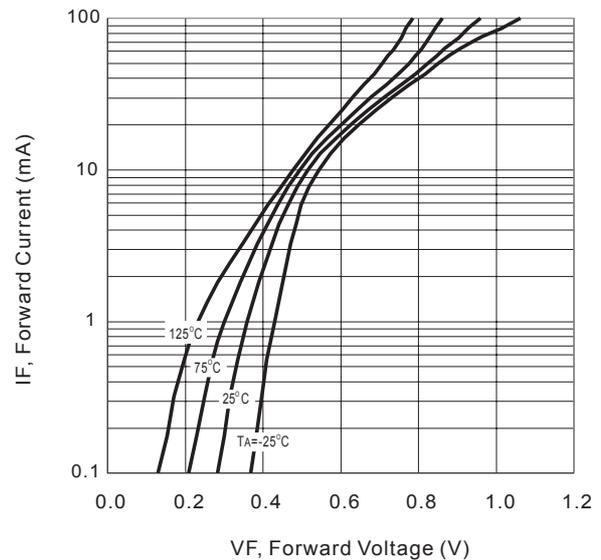


Fig.2 Typical Forward Characteristics

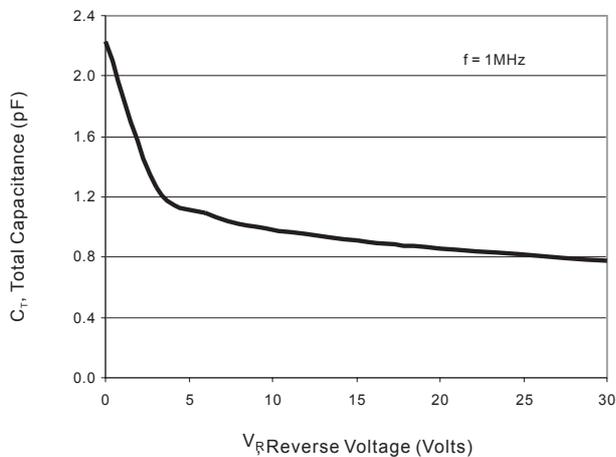


Fig.3 Typical Total Capacitance

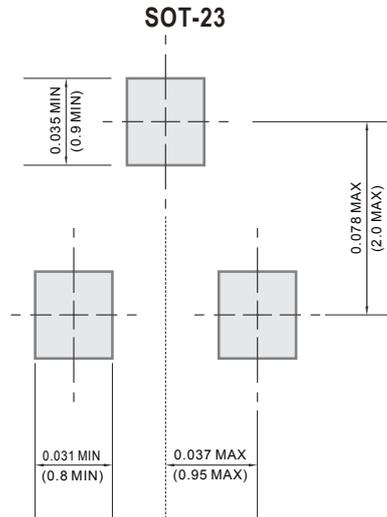


MMBD452

SURFACE MOUNT SCHOTTKY DIODE

Voltage Range 30 Volts
Power 200mWatts

Mounting Pad Layout



Dimensions in millimeters

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.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner.

The information presented in this document does not form part of any quotation or contract. The information presented is believed to be accurate and reliable, and may change without notice in advance. No liability will be accepted by the publisher for any consequence of use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.