



MMBD301TS

SURFACE MOUNT SCHOTTKY DIODE

VOLTAGE 30 Volts **POWER** 200mWatts

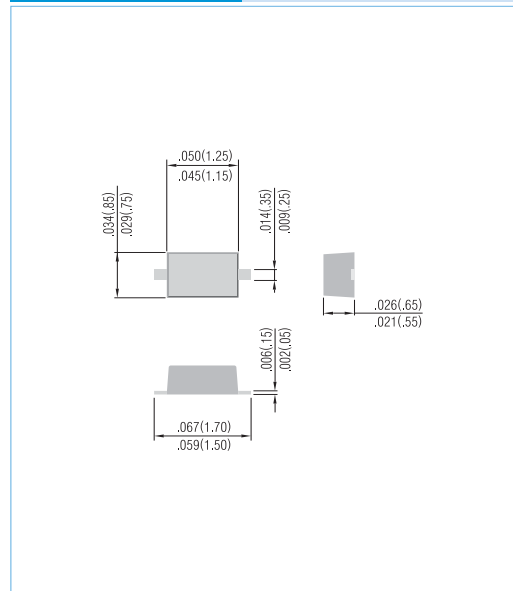
SOD-523 Unit: inch (mm)

FEATURES

- Low Capacitance : 1.5pF(Max)at $V_R=15V$
- Very Low V_F : 0.36V (Typ) at $I_F = 1mA$
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-523 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Weight: approximately 0.002gram
- Marking : 30



ABSOLUTE RATINGS AND THERMAL CHARACTERISTICS

Parameter	Symbol	MMBD301TS	Units
Marking Code	-	30	-
Maximum Reverse Voltage	V_R	30	V
Peak Reverse Voltage	V_{RRM}	30	V
Maximum Forward Current	I_F	0.2	A
Power Dissipation(Note 1)	P_{TOT}	200	mW
Thermal Resistance , Junction to Ambient (Note 1)	$R_{\theta JA}$	556	$^{\circ}C/W$
Junction Temperature Range	T_J	-55 to +125	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

NOTE:

1. FR-4 Board = 70 X 60 X 1mm.



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

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	30	-	-	V
Reverse Leakage Current	I_R	$V_R=25\text{V}$	-	-	0.2	μA
Forward Voltage	V_F	$I_F=1.0\text{mA}$	-	-	0.45	V
Forward Voltage	V_F	$I_F=10\text{mA}$	-	-	0.6	V
Total Capacitance	C_J	$V_R=15\text{V}, f=1.0\text{MHz}$	-	-	1.5	pF

RATING AND CHARACTERISTIC CURVES

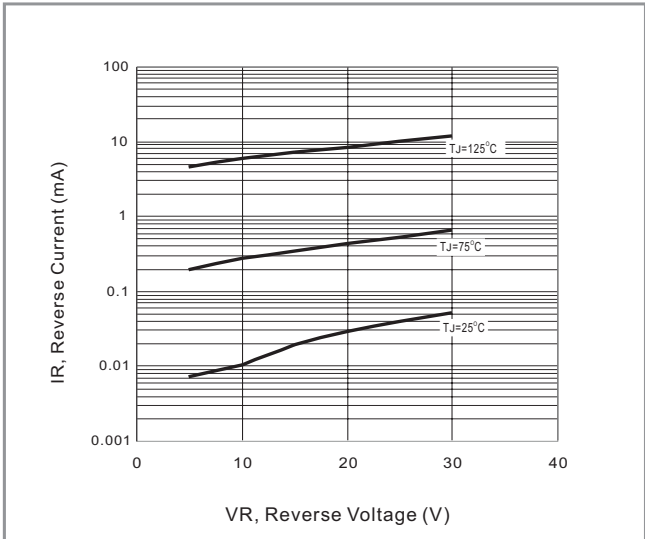


Fig.1 TYPICAL REVERSE CHARACTERISTICS

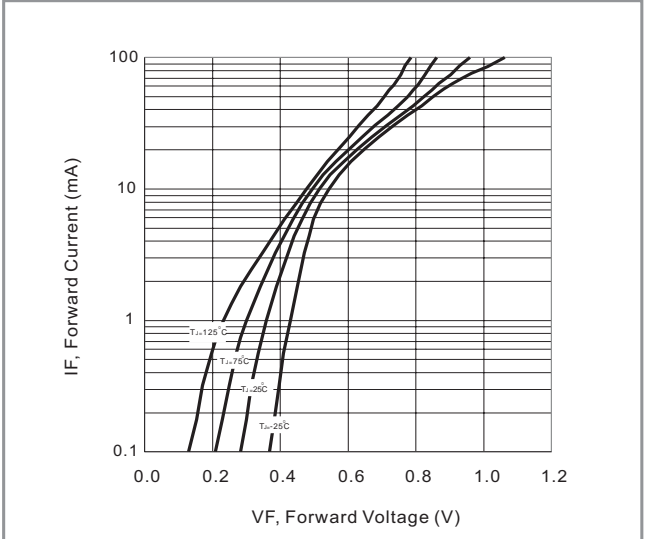


Fig.2-TYPICAL FORWARD CHARACTERISTICS

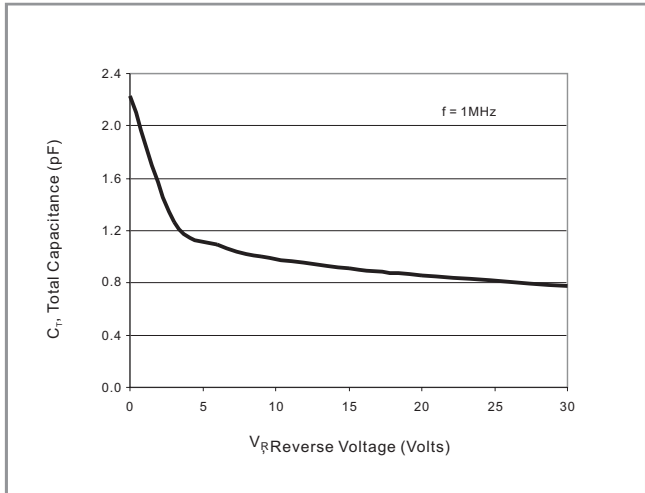
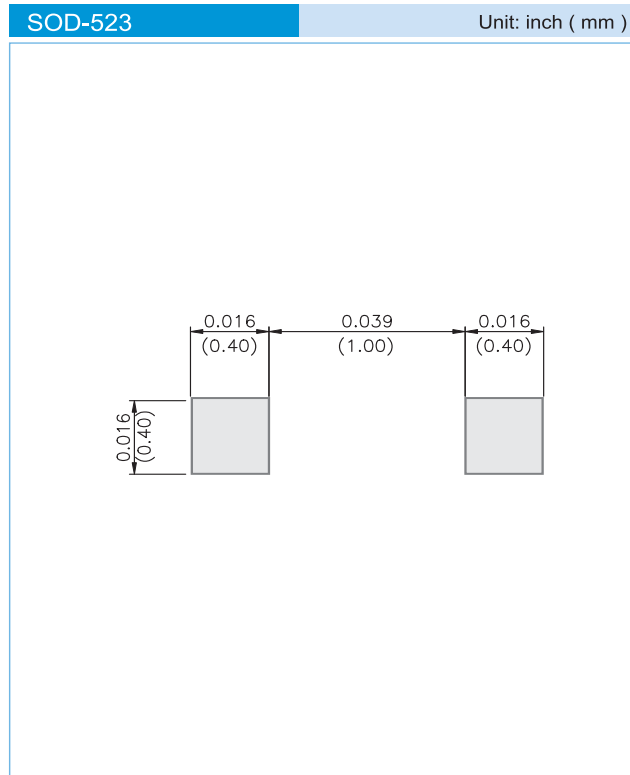


Fig.3 TYPICAL TOTAL CAPACITANCE



MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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