



MMBD301TS

SURFACE MOUNT SCHOTTKY DIODE

VOLTAGE 30 Volts **POWER** 200mWatts

SOD-523

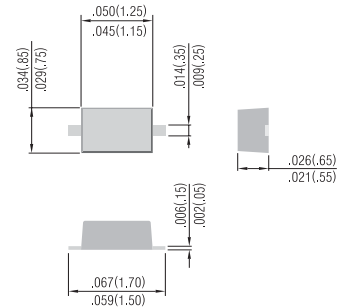
Unit: inch (mm)

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
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: SOD-523 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Weight: approximately 0.002gram
- Marking : 301



ABSOLUTE RATINGS AND THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	Value	UNITS
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)	$R_{\theta JA}$	500	°C / W
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{STG}	-55 to 150	°C

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

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

NOTE:

1. FR-5 Board = 1.0X0.75X0.062 in.



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RATING AND CHARACTERISTIC CURVES

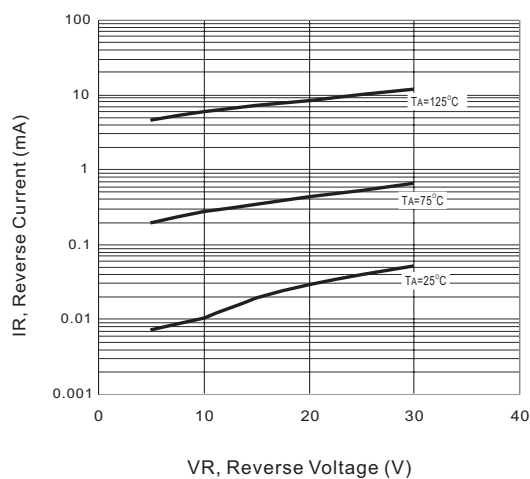


Fig.1 TYPICAL REVERSE CHARACTERISTICS

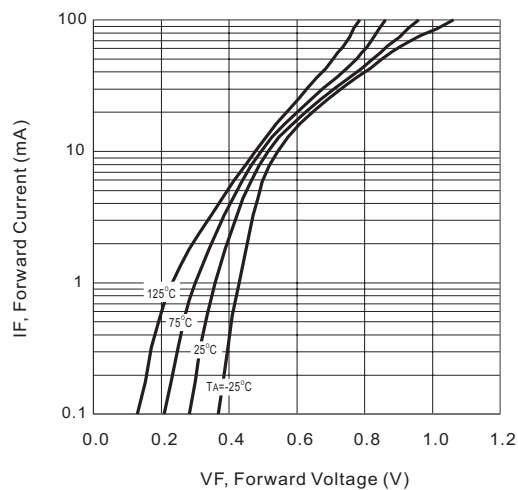


Fig.2-TYPICAL FORWARD CHARACTERISTICS

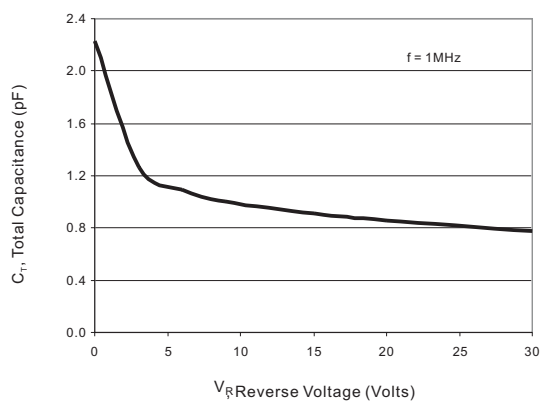


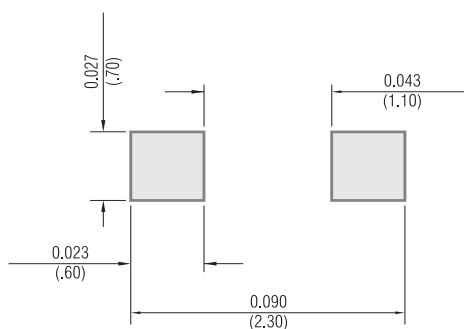
Fig.3 TYPICAL TOTAL CAPACITANCE

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MOUNTING PAD LAYOUT

SOD-523

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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