



# RB751S-40

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 40 Volts    **CURRENT** 300 mA

**SOD-523**    Unit: inch ( mm )

### FEATURES

- Extremely Fast Switching Speed
- Very Low  $V_F$  : 0.325V (Typ) at  $I_F = 1\text{mA}$
- Surface mount package ideally suited for automatic insertion
- In compliance with EU RoHS 2002/95/EC directives

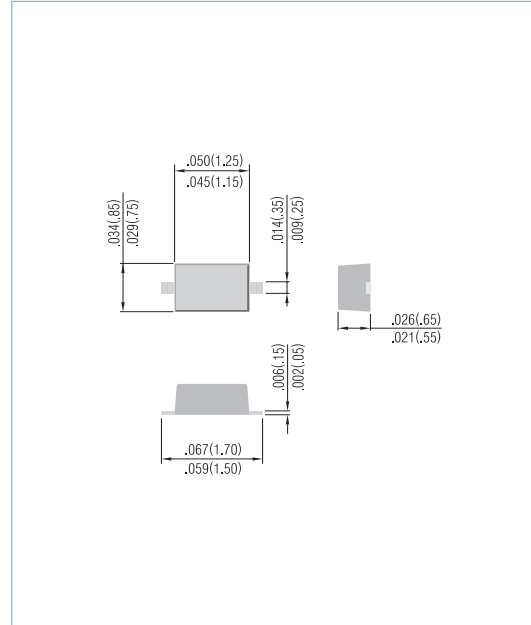
### MECHANICAL DATA

Case: SOD-523, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx Weight : 0.0014 gram

Marking : 51



### ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Reverse DC Voltage	$V_{RRM}$	40	V
Peak Reverse Voltage	$V_R$	30	V
Maximum Forward Current	$I_{F(AV)}$	0.3	A
Power Dissipation <sup>(1)</sup>	$P_{TOT}$	0.2	W
Peak Forward Surge Current at t=8.3ms	$I_{FSM}$	500	mA
Junction Temperature	$T_J$	-55 to + 125	°C
Storage Temperature	$T_{STG}$	-55 to + 125	°C

### THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
Thermal Resistance, Junction to Ambient <sup>(1)</sup>	$R_{\theta JA}$	500	°C/W

1. FR-4 Board = 70 x 60 x 1mm. Minimum Pad Layout

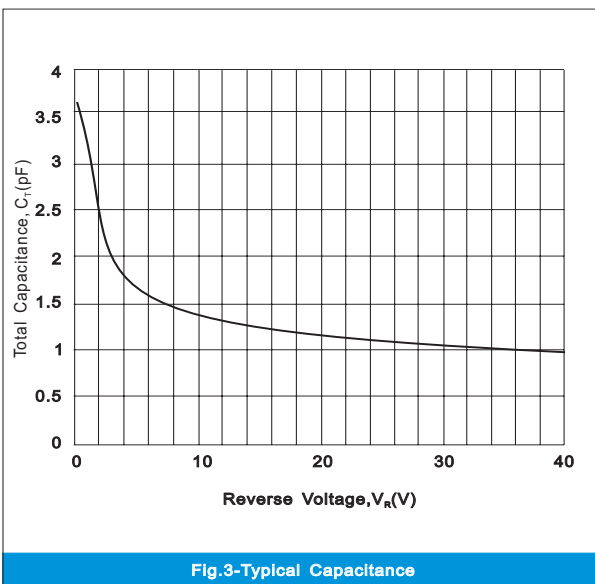
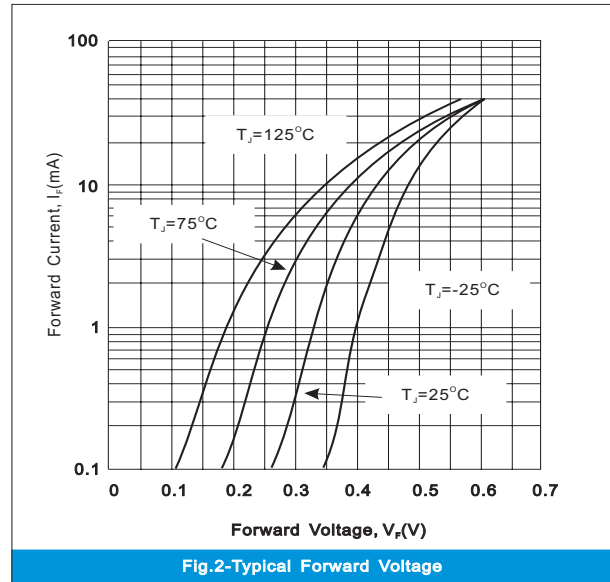
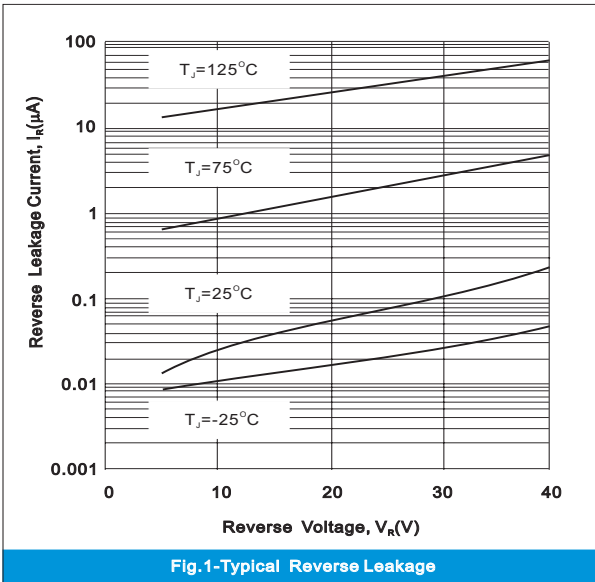


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## ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted )

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	$I_R$	$V_R=30\text{V}$	-	-	0.5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=1\text{mA}$	-	-	0.37	V
Total Capacitance	$C_T$	$V_R=1\text{V}, F=1\text{MHz}$	-	3	5	pF

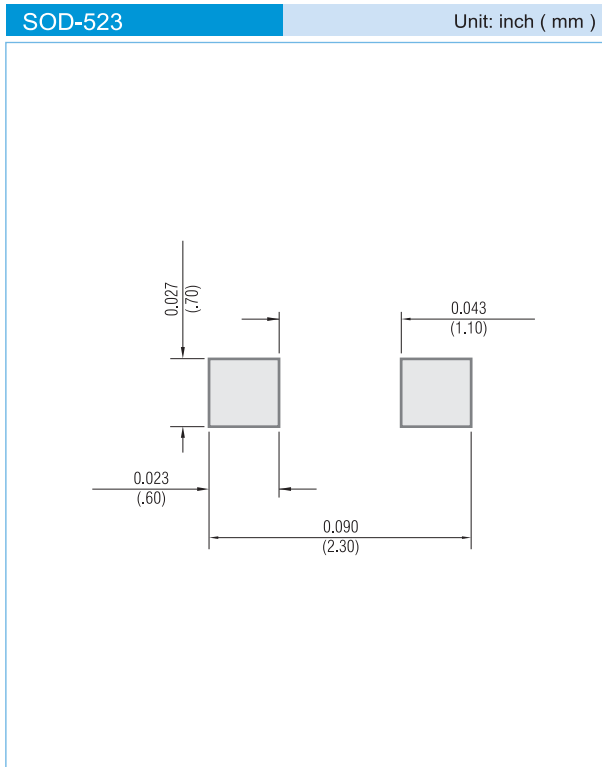
## ELECTRICAL CHARACTERISTICS CURVE





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## 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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