



# RB751S40

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE**

**40 Volt**

**CURRENT**

**300 mA**

**SOD-523**

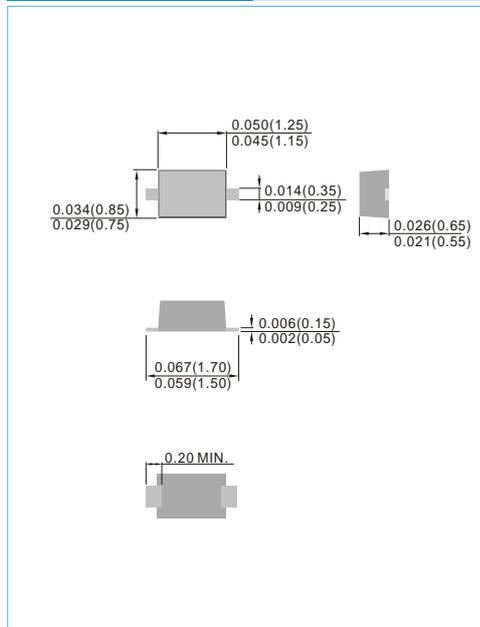
Unit : inch(mm)

### 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
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx Weight: 0.00005 ounces, 0.0014 grams
- 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 Range	$T_J$	-55 to + 125	°C
Storage Temperature Range	$T_{STG}$	-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

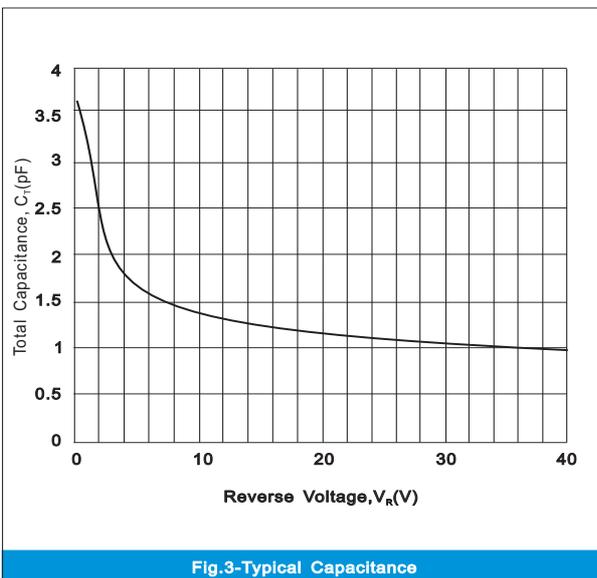
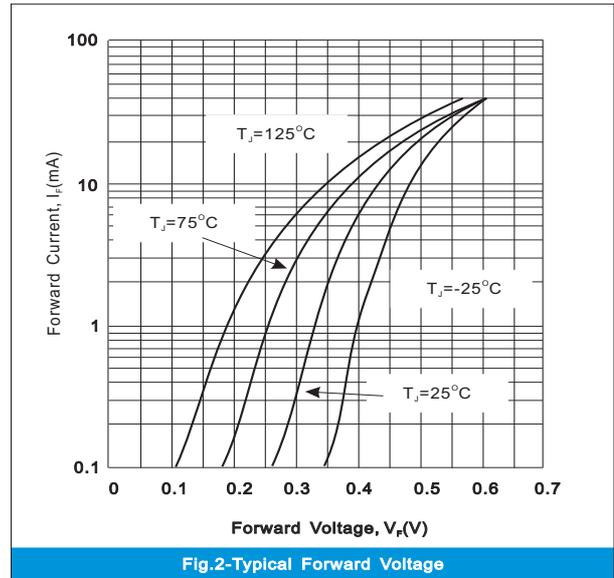
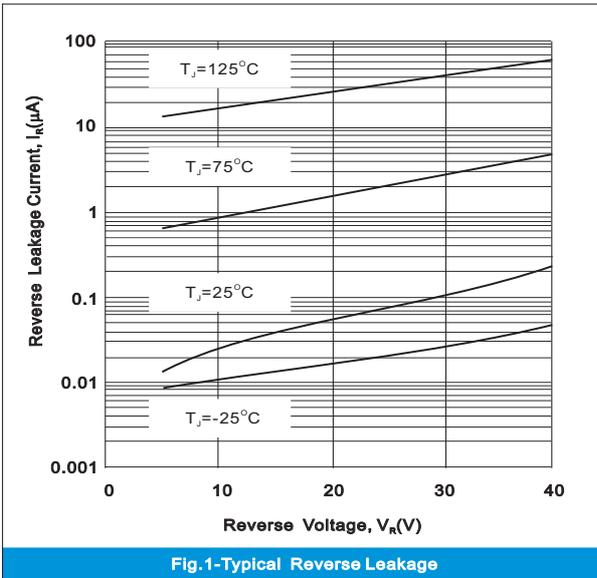


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## ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted )

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

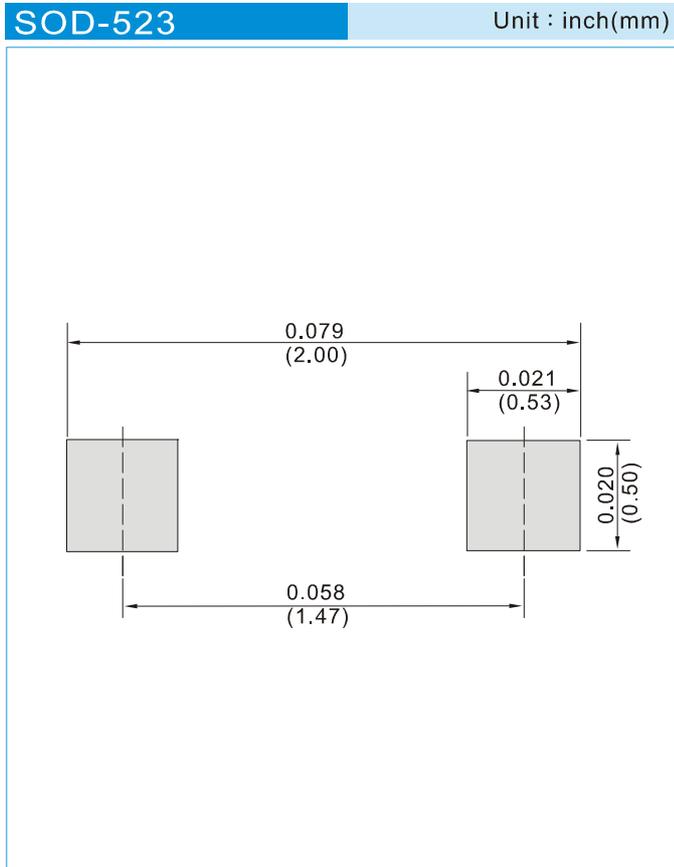
## ELECTRICAL CHARACTERISTICS CURVE





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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



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## Part No\_packing code\_Version

RB751S40\_R1\_00001

RB751S40\_R2\_00001

For example :

**RB500V-40** **R2** **00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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