

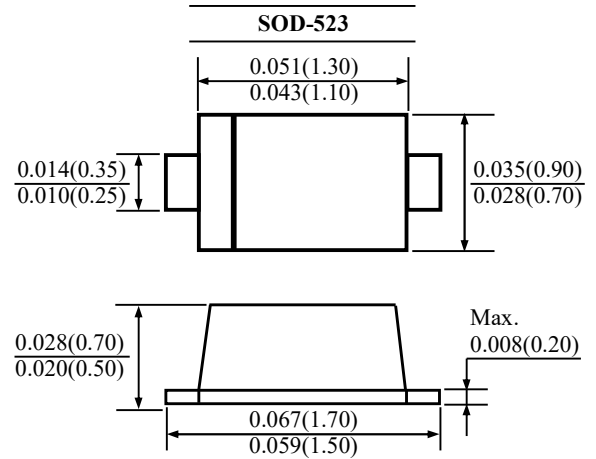


RB751S-40H

SCHOTTKY DIODE

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. RB751S-40H



Dimensions in inch and (millimeter)

Maximum Ratings@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	30	V
Forward Current	I_F	30	mA
Non-Repetitive Peak Forward Current (at 8.3ms single half sine-wave)	I_{FSM}	200	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient (Note 1)	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

Note :

1. FR-4 board=70×60×1mm. Minmum pad layout.

Electrical Characteristics@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Conditions	Symbol	Min.	Max.	Unit
Breakdown Voltage	$I_R=10\mu\text{A}$	B_V	30	-	V
Reverse Leakage Current	$V_R=30\text{V}$	I_R	-	0.5	μA
Forward Voltage	$I_F=1\text{mA}$	V_F	-	0.37	V



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Typical Characteristics

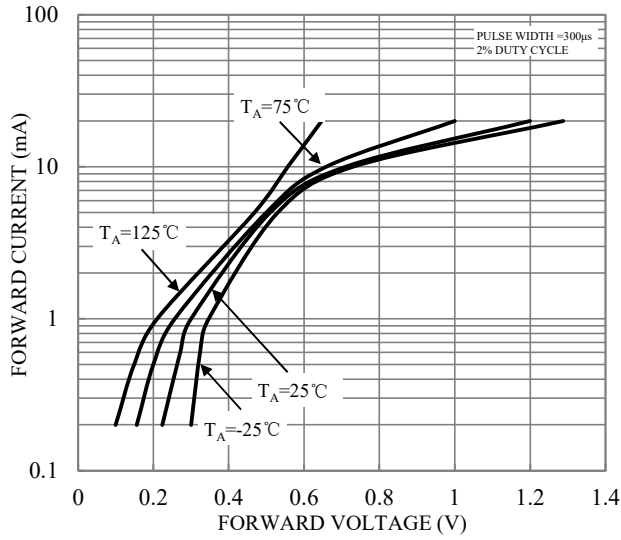


Fig.1-TYPICAL FORWARD CHARACTERISTICS

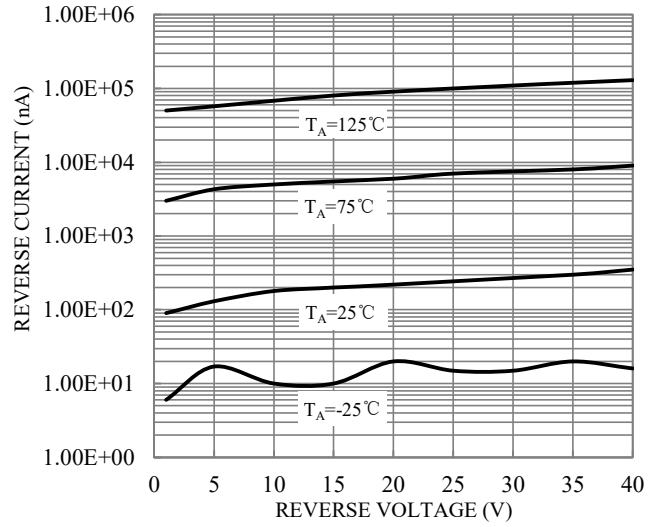


Fig.2-TYPICAL REVERSE CHARACTERISTICS

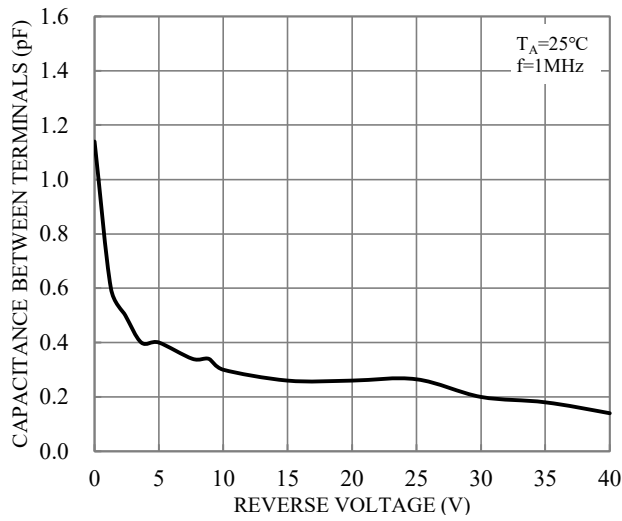


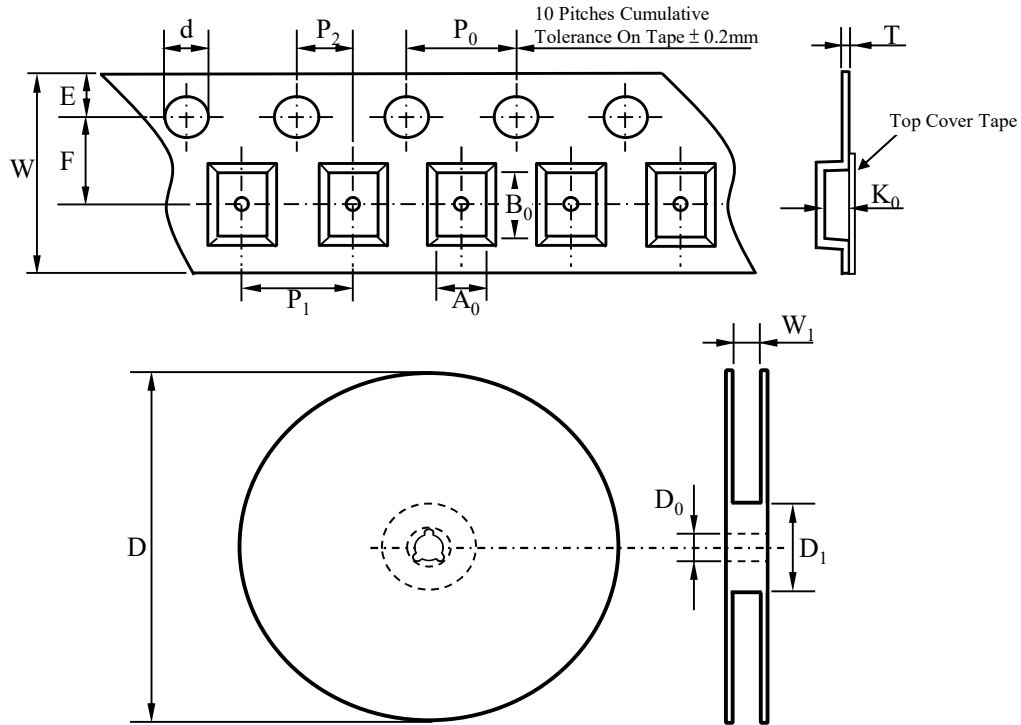
Fig.3-TOTAL CAPACITANCE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-523
Carrier width	A ₀	0.96 ± 0.10
Carrier length	B ₀	1.94 ± 0.10
Carrier depth	K	0.73 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D ₀	13.00 ± 0.50
Reel inner diameter	D ₁	MIN. 50.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P ₀	4.00 ± 0.10
Punch hole pitch	P ₁	2.00 ± 0.10
Embossment center	P ₂	2.00 ± 0.10
Overall tape thickness	T	0.20 ± 0.05
Tape width	W	8.00 ± 0.30
Reel width	W ₁	MAX. 11.00

ORDER INFORMATION

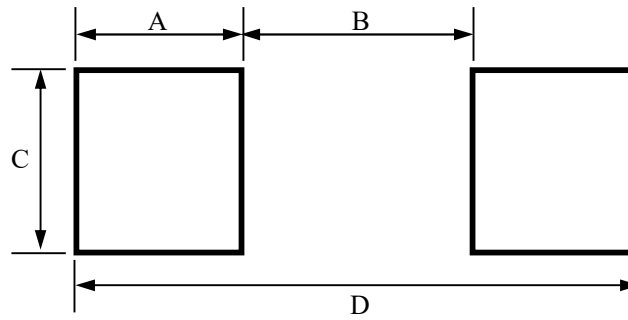
Part Number	Marking Code	Reel Size	Quantity
RB751S-40H	D / 4B	7"	4,000
			8,000



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SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
SOD-523	0.60	0.85	0.70	2.05