



RB751V-40

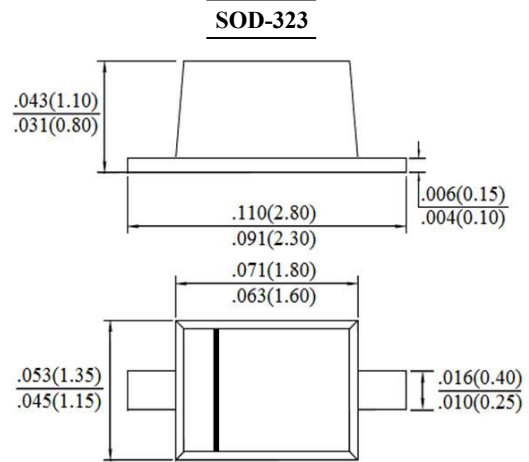
SURFACE MOUNT SCHOTTKY BARRIER DIODE

FEATURES

- Low forward voltage
- Low capacitance
- Suffix "H" indicates Halogen-free parts, ex. RB751V-40H

MECHANICAL DATA

- Case : SOD-323
- Polarity : Band Indicates Cathode



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	
Average Rectified Forward Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current (60Hz for 1 Cycles)	I_{FSM}	200	mA
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +125	

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

Parameter	Test condition	Symbol	Typ.	Max.	Unit
Forward Voltage	$I_F = 1\text{mA}$	V_F	-	0.37	V
Reverse Current	$V_R = 30\text{V}$	I_R	-	0.5	μA
Total Capacitance	$V_R = 1\text{V}, f = 1\text{MHz}$	C_T	2	-	pF



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RATINGS AND CHARACTERISTIC CURVES

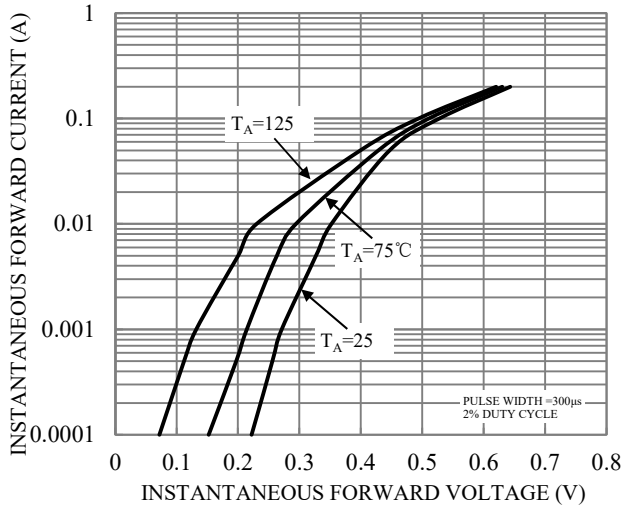


Fig. 1- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

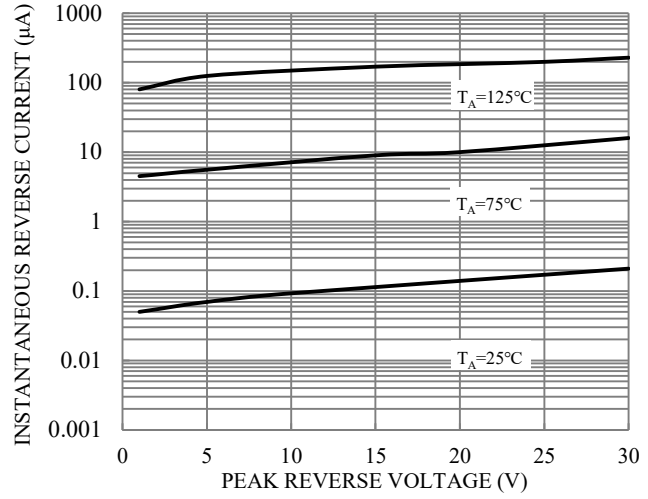


Fig. 2- TYPICAL REVERSE CHARACTERISTICS

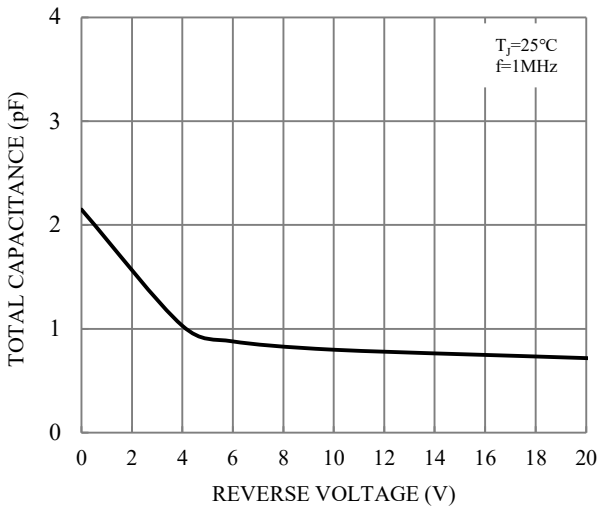


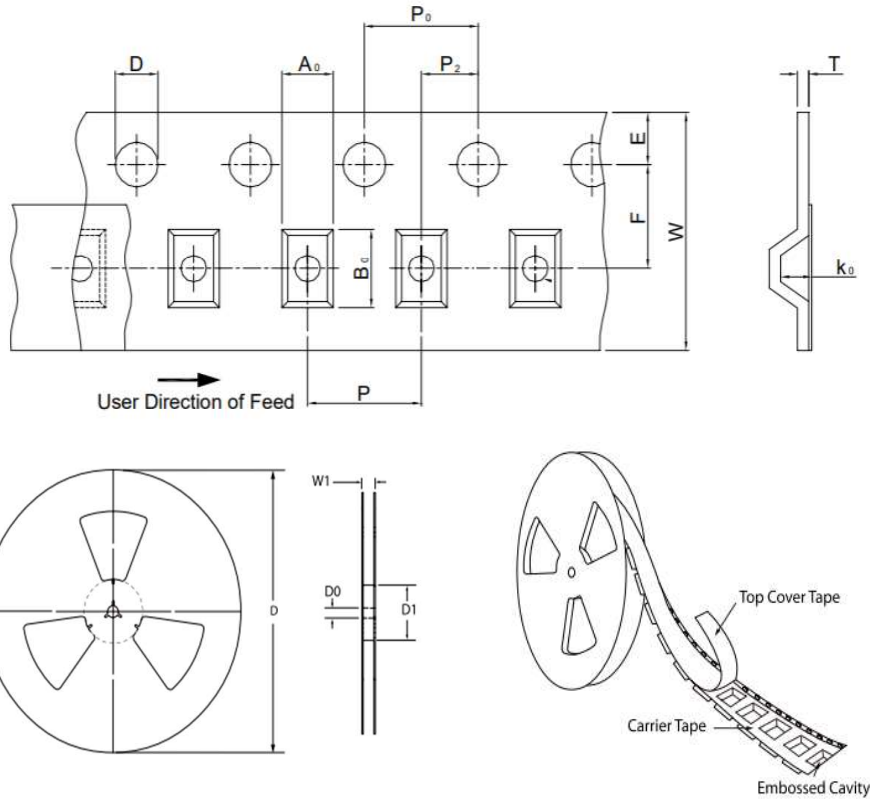
Fig. 3- TYPICAL TOTAL



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A_0	1.50 ± 0.10
Carrier length	B_0	2.95 ± 0.10
Carrier depth	K_0	1.20 ± 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
Sprocke hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocke hole pitch	P_0	4.00 ± 0.10
Punch hole pitch	P_1	4.00 ± 0.10
Embossment center	P_2	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	8.00 ± 0.20
Reel width	$W1$	MAX. 10.00

ORDER INFORMATION

Package	Reel Size	Quantity
SOD-323	7"	3,000

MARKING CODE

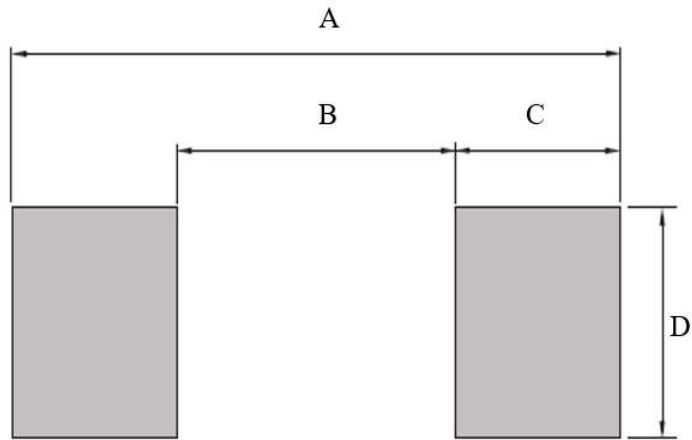
Part Number	Marking Code
RB751V-40	S8



RB751V-40

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SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOD-323	2.90	1.30	0.80	0.90