

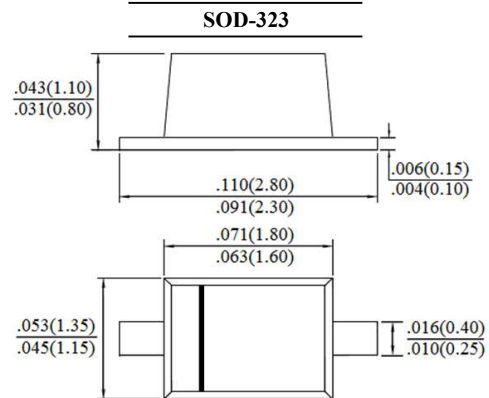


RB501V-40H

SCHOTTKY DIODES

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. RB501V-40H



Dimensions in inch and (millimeters)

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

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	200	mW
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Average Forward Current	I_F	100	mA
Peak Forward Surge Current (8.3mS Single Half-wave)	I_{FSM}	1	A
Operating Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Leakage Current	$V_R = 10\text{V}$	I_R	-	-	30	μA
Forward Voltage	$I_F = 10\text{mA}$	V_F	-	-	0.34	V
	$I_F = 100\text{mA}$		-	-	0.55	
Capacitance	$V_R = 10\text{V}$, $f = 1\text{MHz}$	C	-	6	-	pF



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RATINGS AND CHARACTERISTIC CURVES

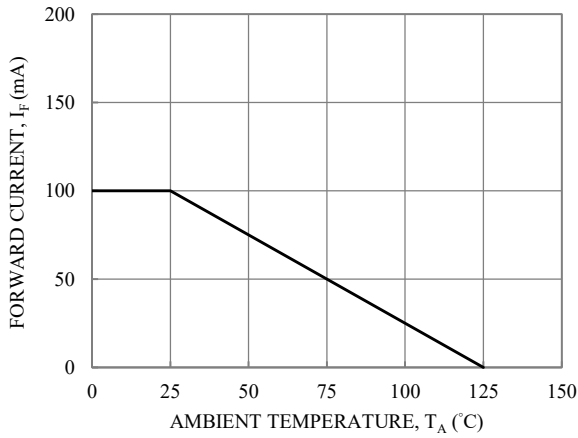


Fig.1-DERATING CURVE

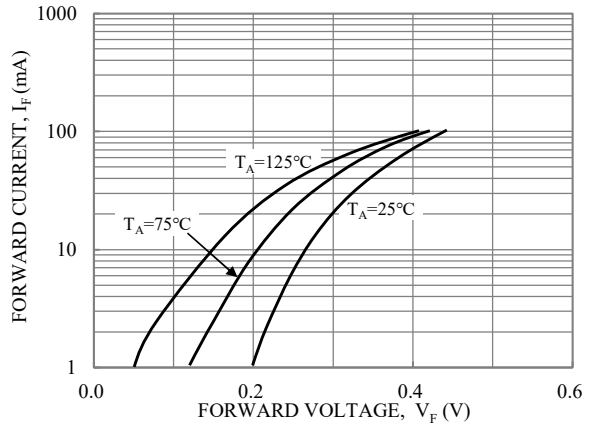


Fig.2-FORWARD CHARACTERISTICS

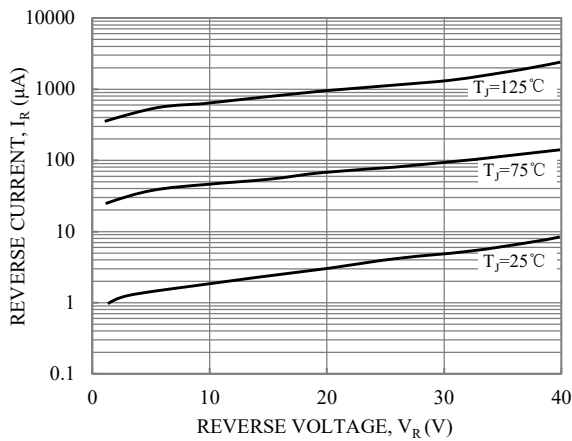


Fig.3-REVERSE CHARACTERISTICS

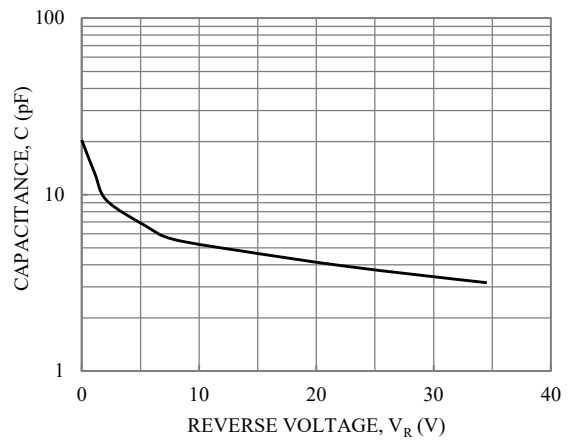


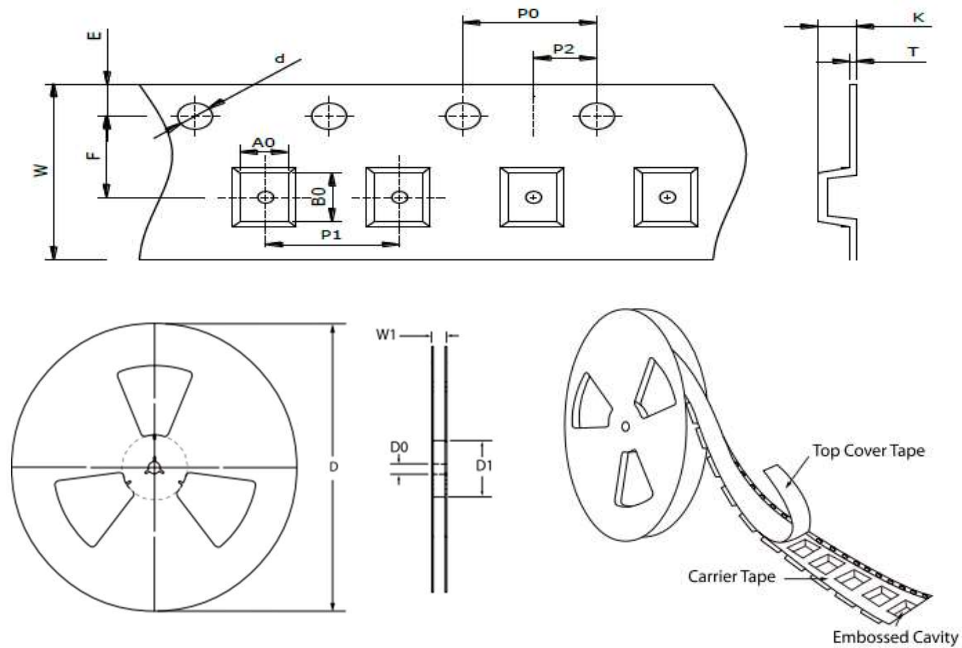
Fig.4-CAPACITANCE CHARACTERISTICS



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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	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
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	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	W ₁	MAX. 10.00

ORDER INFORMATION

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

MARKING CODE

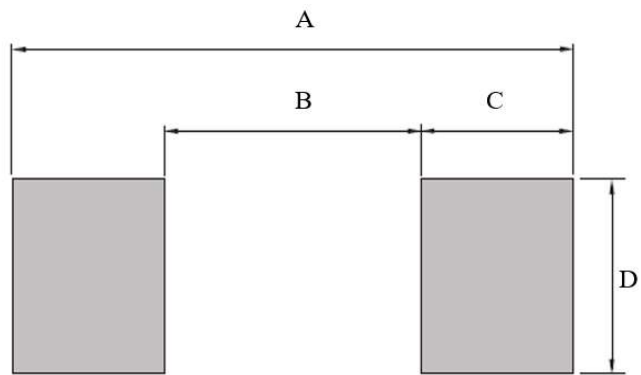
Part Number	Marking Code
RB501V-40H	S7 / B4



RB501V-40H

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit : mm

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