

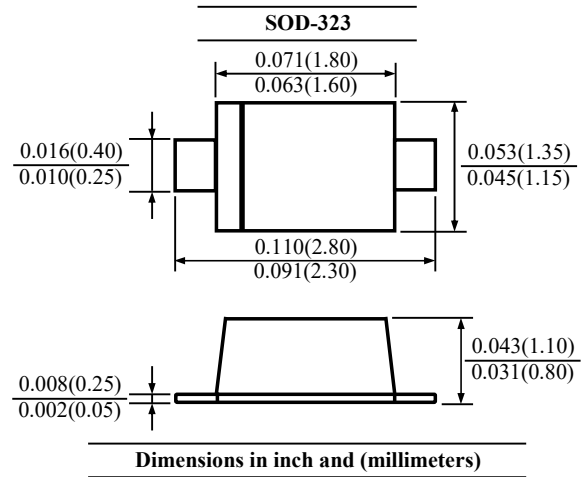


RB551V-30H

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. RB551V-30H



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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Maximum DC Blocking Voltage	V_R	20	V
Average Forward Current	$I_{F(AV)}$	500	mA
Peak Forward Surge Current (8.3ms Single Half-wave)	I_{FSM}	2	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.	Max.	Unit
Reverse Leakage Current	$V_R=20\text{V}$	I_R	-	100	μA
Forward Voltage	$I_F=100\text{mA}$	V_F	-	0.36	V
	$I_F=500\text{mA}$		-	0.47	



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RATINGS AND CHARACTERISTIC CURVES

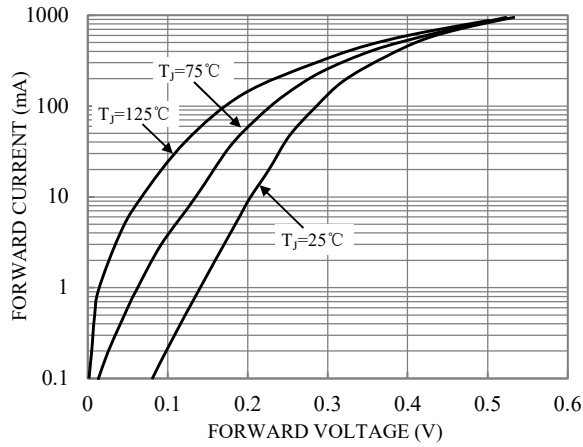


Fig.1-TYPICAL FORWARD CHARACTERISTICS

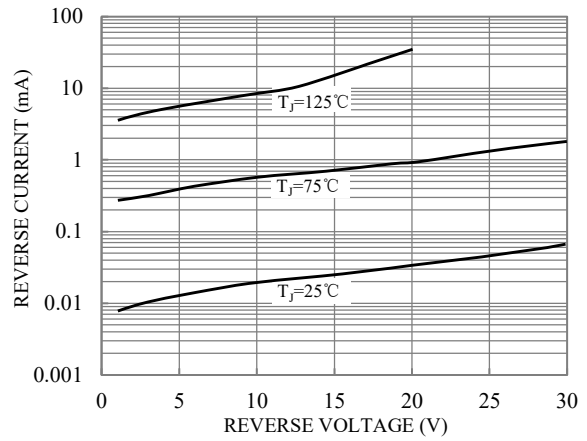


Fig.2-TYPICAL REVERSE CHARACTERISTICS

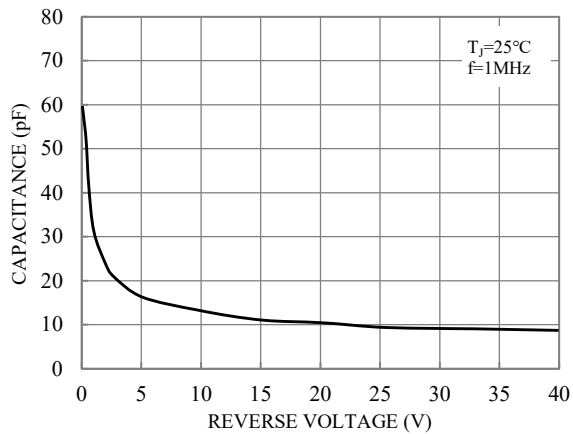


Fig.3-CAPACITANCE

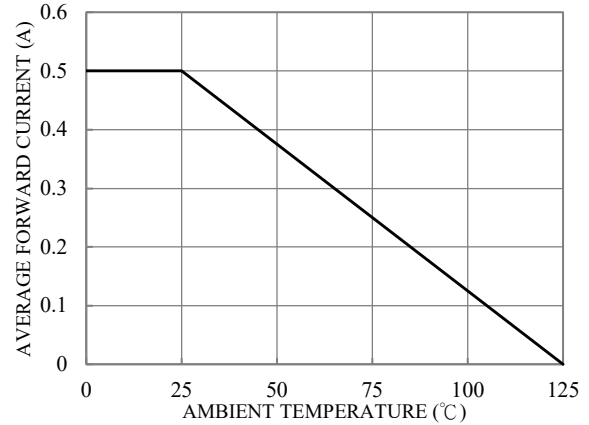


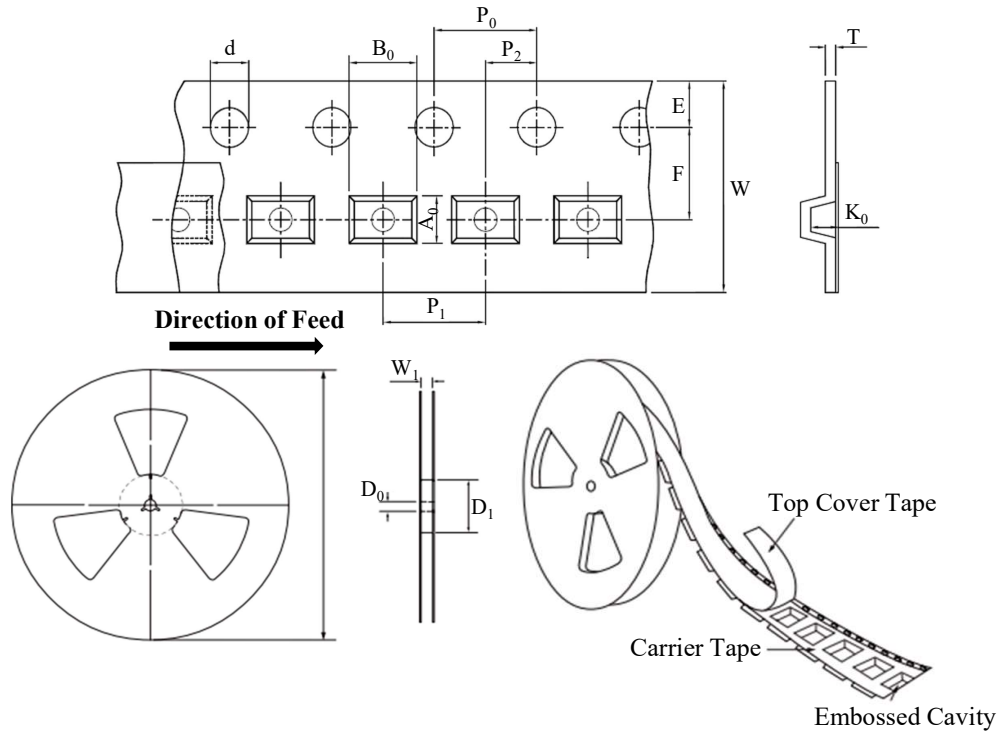
Fig.4-FORWARD CURRENT DERATING CURVE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A_0	*
Carrier length	B_0	
Carrier depth	K_0	
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	0.20 ± 0.05
Tape width	W	8.00 ± 0.20
Reel width	W1	MAX. 14.50

Note *: A_0 , B_0 , and K_0 are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min. to 0.5 mm max.

ORDER INFORMATION

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

MARKING CODE

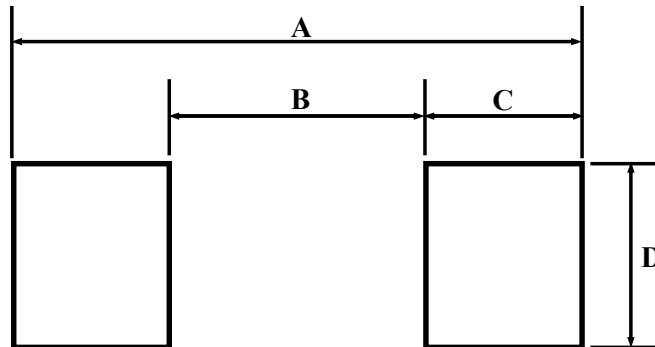
Part Number	Marking Code
RB551V-30H	B3 / SA



RB551V-30H

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit :mm

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