



RB521S-30GH

SCHOTTKY DIODE

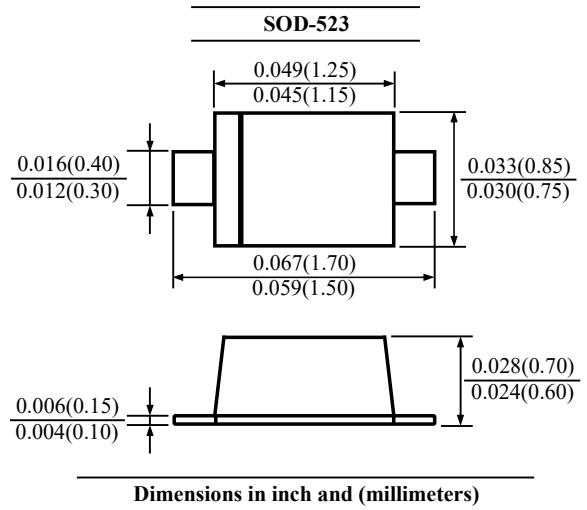
FEATURES

- Low forward voltage
- Suffix "H" indicates Halogen-free parts, ex. RB521S-30GH

MECHANICAL DATA

Case : SOD-523

Polarity : Indicated by cathode band



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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Continuous Forward Current	I_F	100	mA
Peak Forward Surge Current (8.3ms)	I_{FSM}	1	A
Operating Junction Temperature	T_J	-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +125	$^\circ\text{C}$

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage	$I_R=100\mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Forward Voltage	$I_F=10\text{mA}$	V_F	-	-	0.35	V
Reverse Leakage Current	$V_R=10\text{V}$	I_R	-	-	10	μA



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RATINGS AND CHARACTERISTIC CURVES

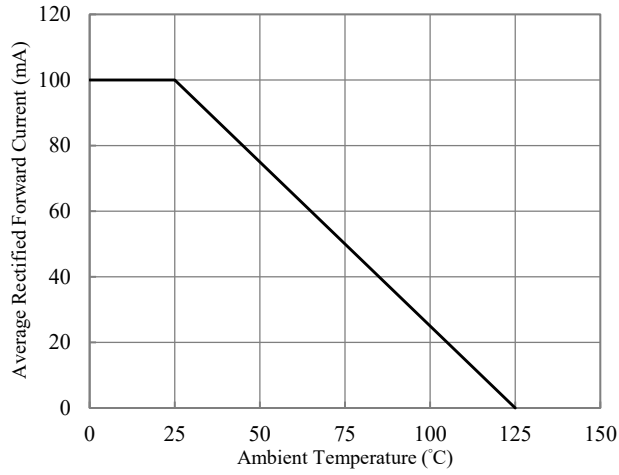


Fig. 1 Power Derating Curves

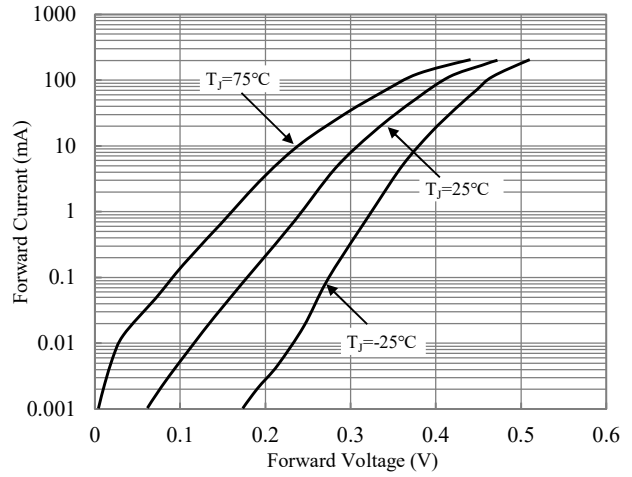


Fig. 2 Forward Characteristics

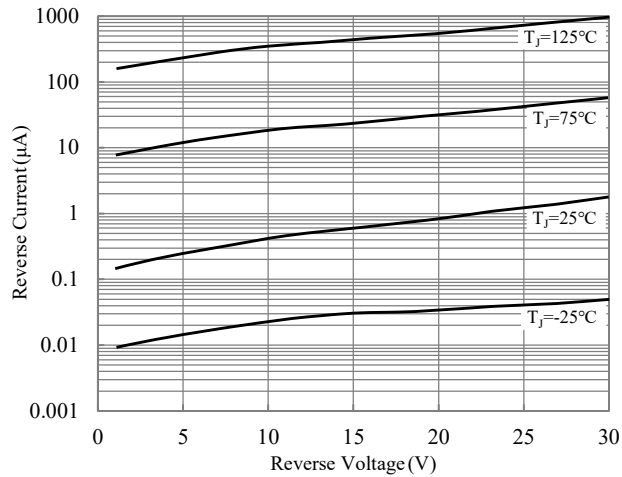


Fig. 3 Reverse Characteristics

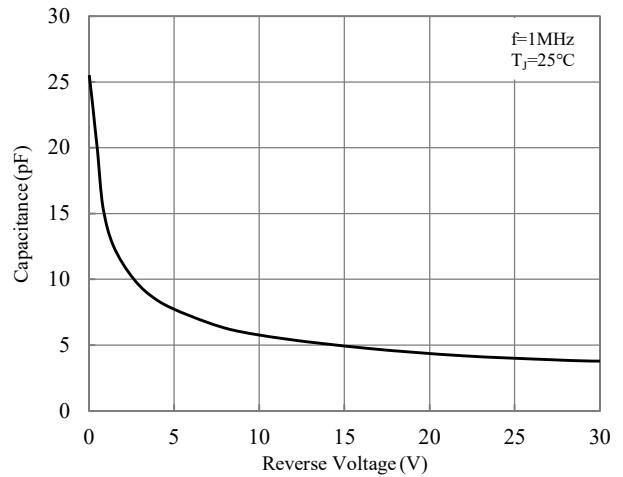


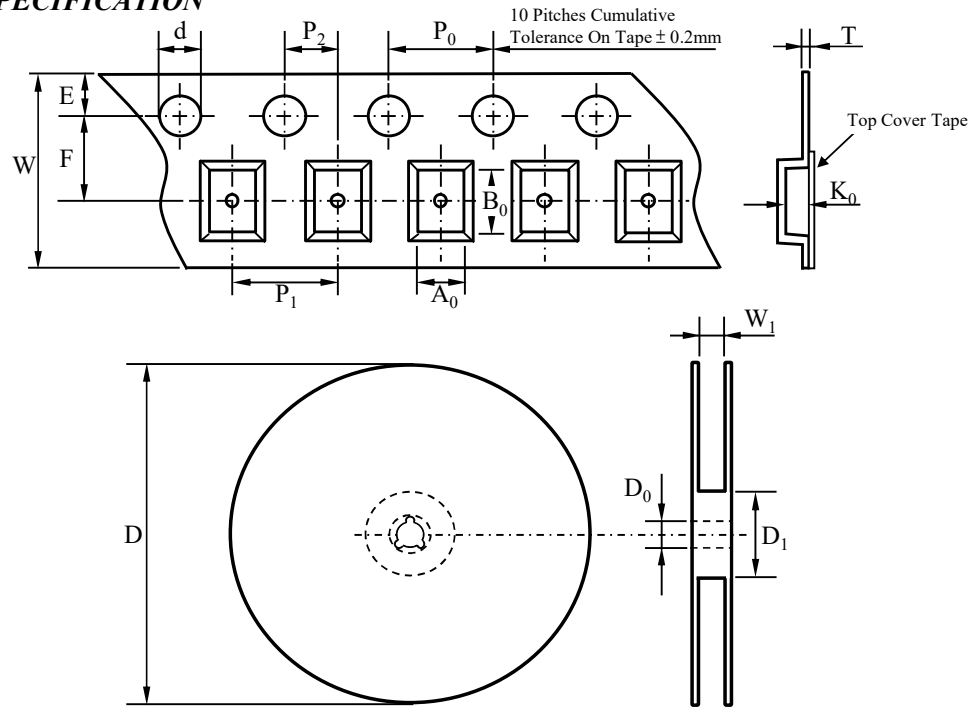
Fig. 4 Capacitance Characteristics



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-523
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	MAX. 0.60
Tape width	W	8.00 ± 0.20
Reel width	W_1	MAX. 10.00

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

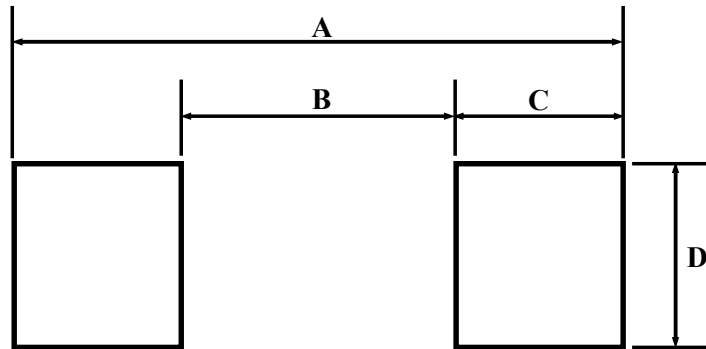
Part Number	Marking Code	Reel Size	Quantity
RB521S-30GH	E	7"	4,000



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SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
SOD-523	2.30	1.10	0.60	0.80