

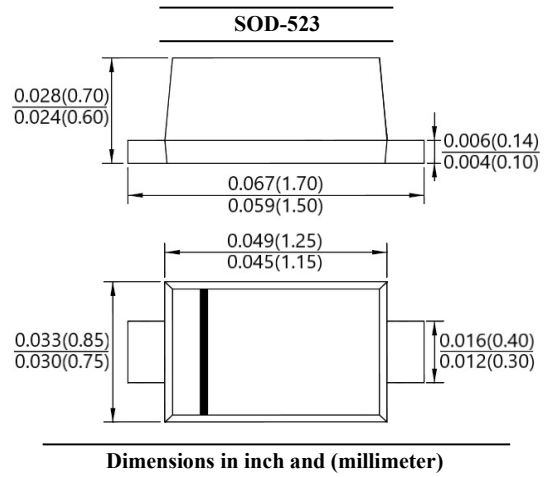


1SS388H

SCHOTTKY DIODES

FEATURES

- High speed switching application
- Suffix "H" indicates Halogen-free parts, ex. 1SS388H



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

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	100	mA
Maximum (Peak) Forward Current	I_{FM}	300	mA
Surge Current (10 ms)	I_{FSM}	1	A
Power Dissipation (Note 1)	P_{tot}	150	mW
Operating Temperature Range	T_{OPR}	-40 to +100	$^\circ\text{C}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

Note:

1. Mounted on a glass epoxy circuit board of 20×20 mm, pad dimension of 4×4 mm

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

Parameter	Conditions	Symbol	Max.	Unit
Forward Voltage	$I_F=100\text{mA}$	V_F	0.6	V
Reverse Current	$V_R=10\text{V}$	I_R	1	μA
	$V_R=40\text{V}$		5	
Total Capacitance	$V_R=0\text{V}$, $f=1\text{MHz}$	C_T	25	pF



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RATINGS AND CHARACTERISTIC CURVES

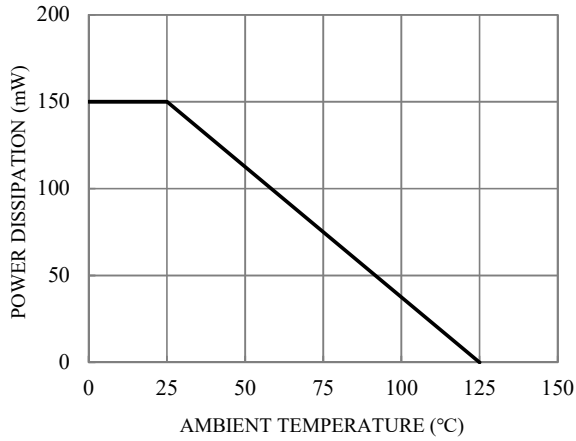


Fig. 1 POWER DERATING CURVE

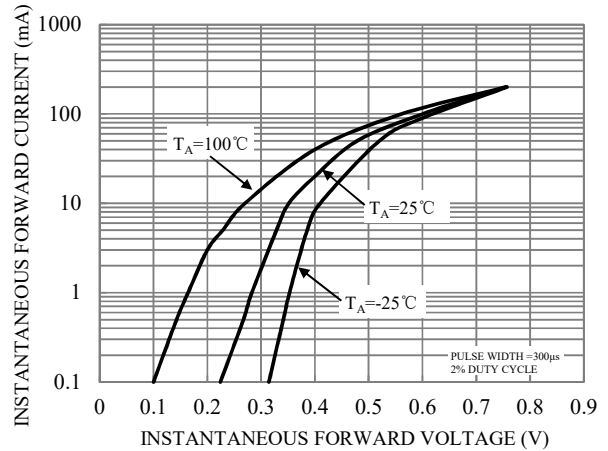


Fig. 2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

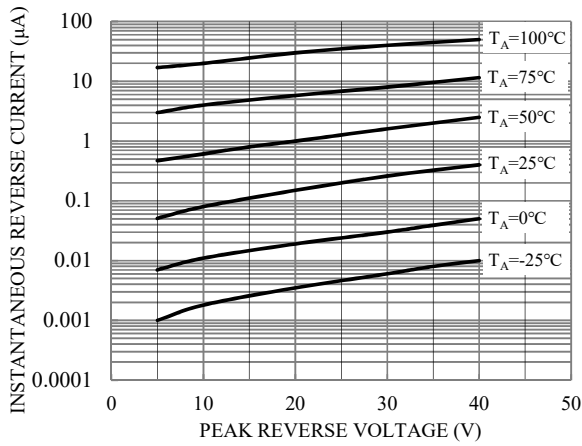


Fig. 3 TYPICAL REVERSE CHARACTERISTICS

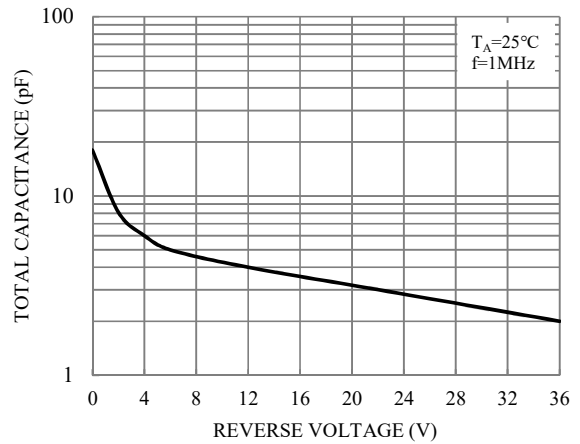


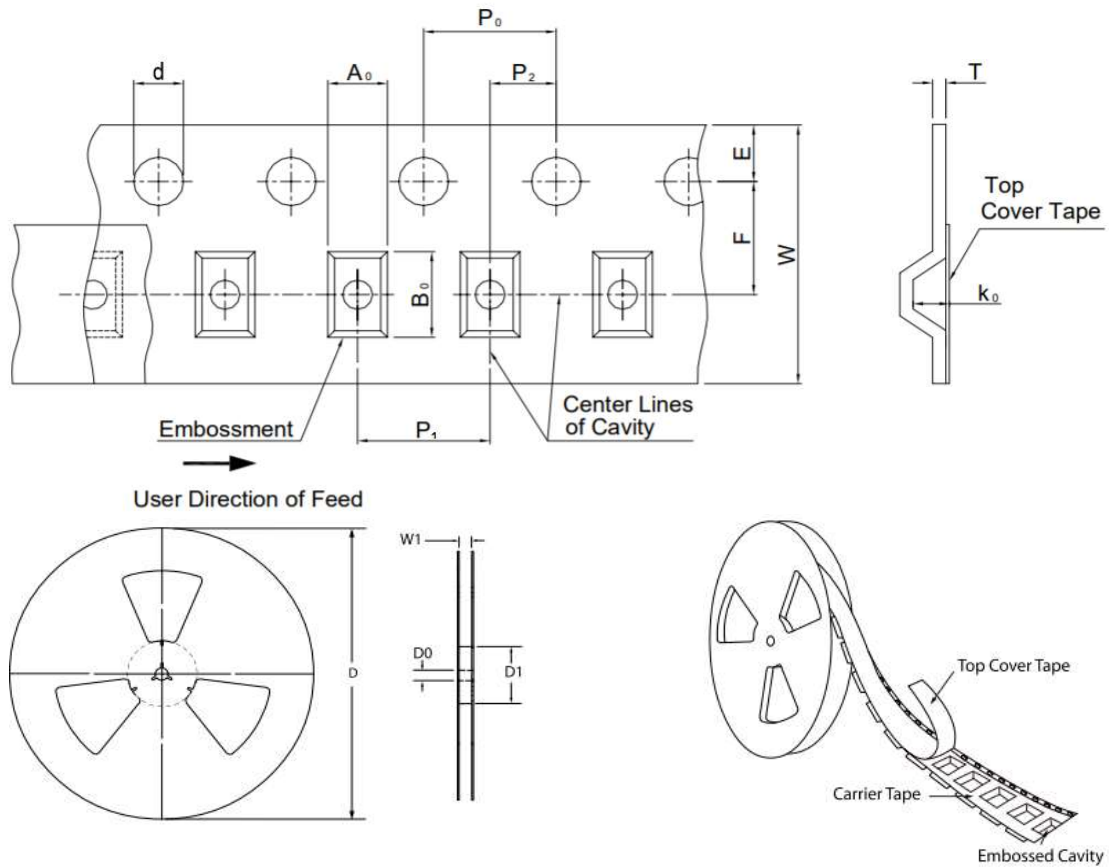
Fig. 4 TYPICAL TOTAL CAPACITANCE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-523
Carrier width	A_0	1.00 ± 0.10
Carrier length	B_0	1.85 ± 0.10
Carrier depth	K_0	0.85 ± 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 ± 0.30
Reel width	W_1	MAX. 10.00

ORDER INFORMATION

Package	Reel Size	Quantity
SOD-523	7"	4,000

MARKING CODE

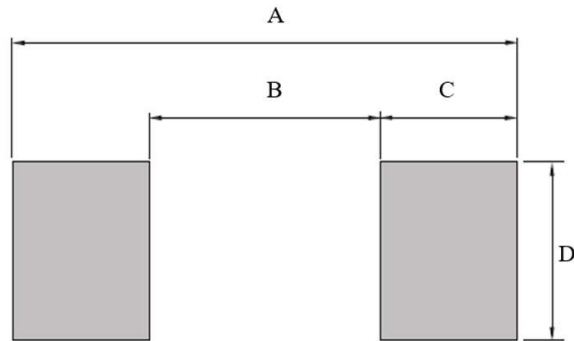
Part Number	Marking Code
1SS388H	O



1SS388H

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SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOD-523	2.02	0.82	0.60	0.70