

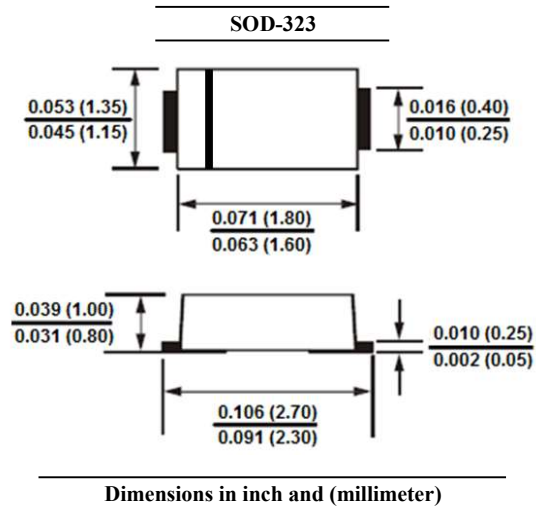


SD103AWSH / SD103BWSH / SD103CWSH

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. SD103AWSH



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
SD103AWSH		30	
SD103BWSH		20	
Average Forward Current	$I_{F(AV)}$	200	mA
Operating Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Typ.	Max.	Unit	Test Conditions
Reverse Leakage Current	I_R	-	5	μA	$V_R=30\text{V}$
		-			$V_R=20\text{V}$
		-			$V_R=10\text{V}$
Forward Voltage	V_F	-	0.37	V	$I_F=20\text{mA}$
			0.60		$I_F=200\text{mA}$
Junction Capacitance	C_t	50	-	pF	$V_R=0\text{V}$ $f=1.0\text{MHz}$



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Typical Characteristics

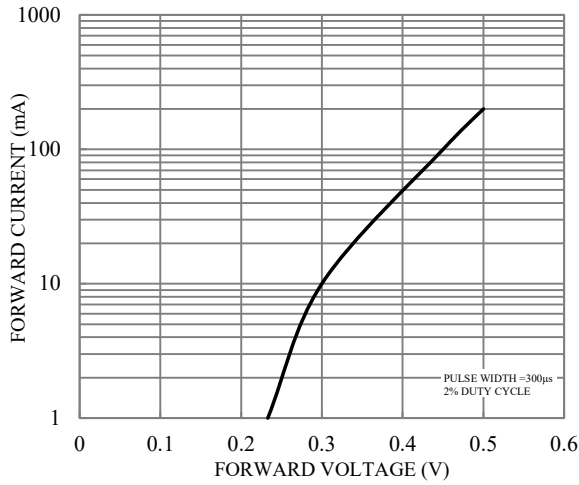


Fig.1-TYPICAL FORWARD CHARACTERISTICS

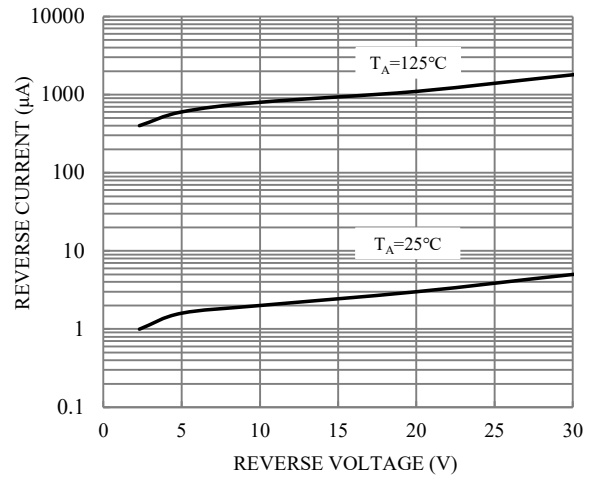


Fig.2-TYPICAL REVERSE CHARACTERISTICS

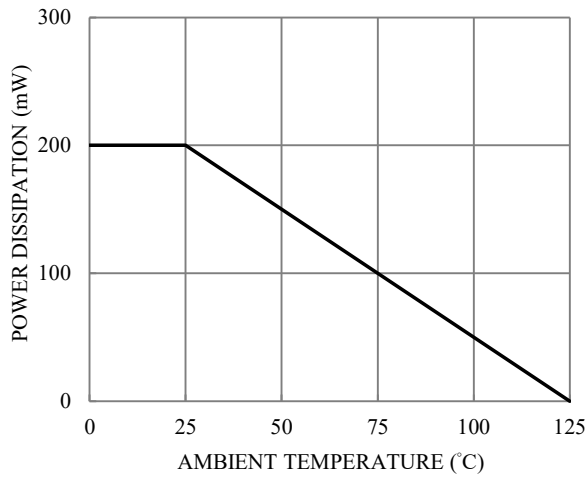


Fig.3-POWER DETATING CURVE

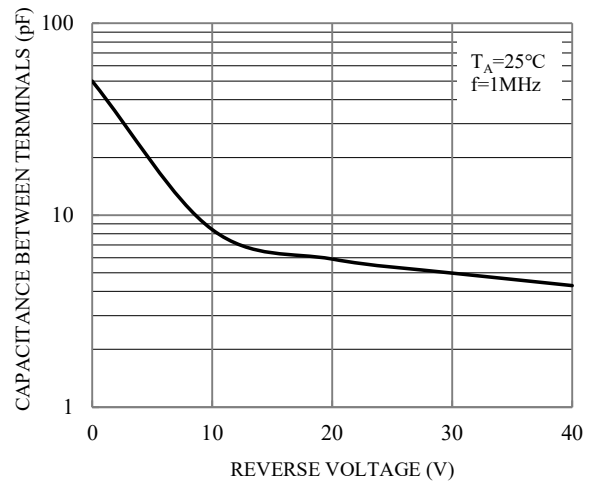


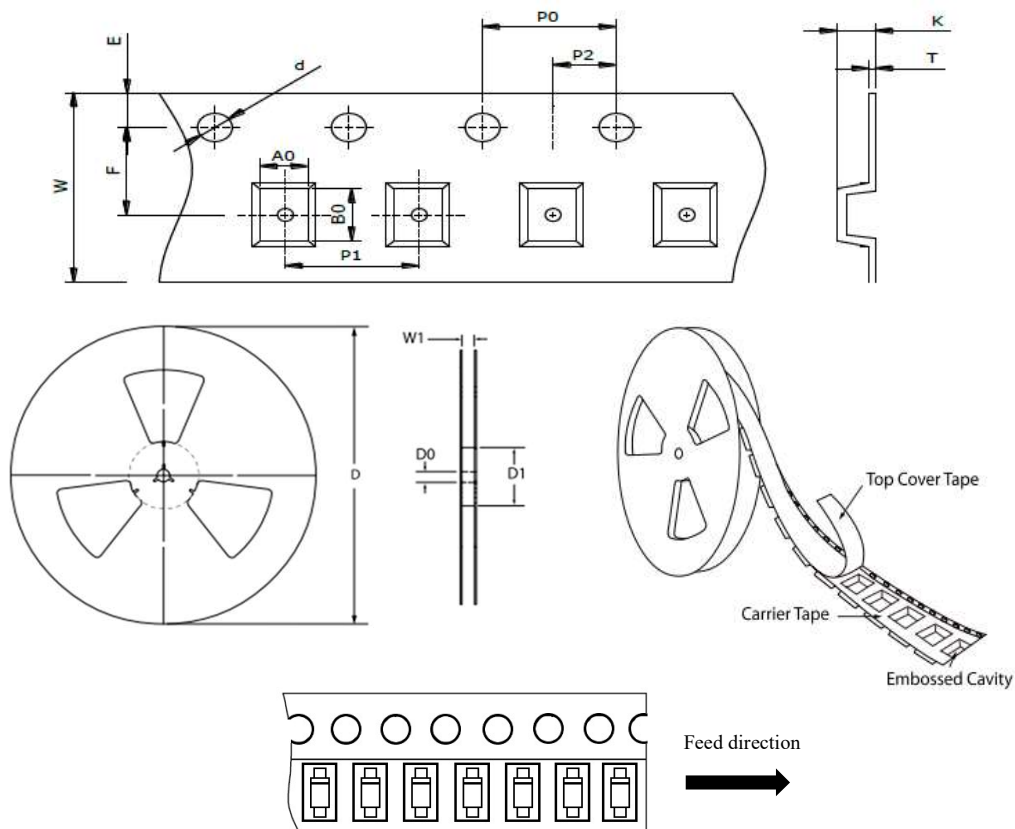
Fig.4-TOTAL CAPACITANCE



SD103AWSH / SD103BWSH / SD103CWSH

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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A ₀	1.43 ± 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	0.25 ± 0.05
Tape width	W	8.00 ± 0.30
Reel width	W ₁	MAX. 11.00

ORDER INFORMATION

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

MARKING CODE

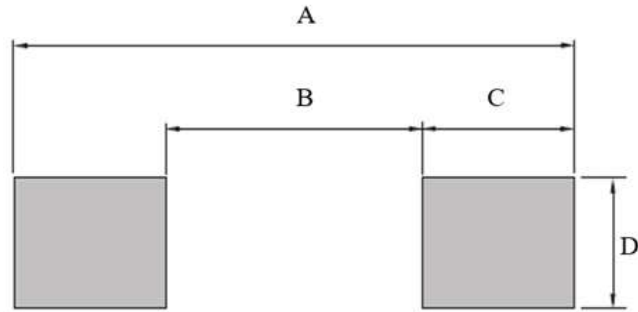
Part Number	Marking Code
SD103AWSH	S4 / JV
SD103BWSH	S4 / JW
SD103CWSH	S4 / JX



SD103AWSH / SD103BWSH / SD103CWSH

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOD-323	4.60	1.40	1.60	1.20