



1N4148WSH

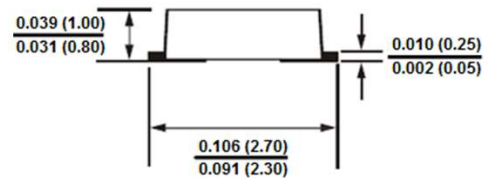
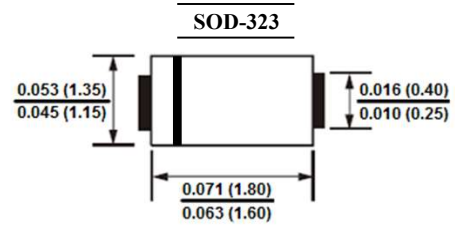
FAST SWITCHING DIODES

FEATURES

- Fast Switching Device ($t_{rr} < 4.0$ ns)
- General Purpose Diodes
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. 1N4148WSH

MECHANICAL DATA

Case : SOD-323
 Polarity : Color band denotes cathode end
 Mounting position : Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings

Tamb = 25 °C, unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Continuous Forward Current	I_O	150	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Power Dissipation	P_D	200	mW
Operating Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C

Electrical Characteristics

Tamb = 25 °C, unless otherwise specified

Parameter	Symbol	Test Condition	Min.	Max.	Units
Forward Voltage	V_F	$I_F=10mA$	-	1.0	V
Reverse Leakage Current	I_R	$V_R=20V$	-	25	nA
		$V_R=75V$	-	5	uA
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu A$	100	-	V
		$I_R=5\mu A$	75	-	
Capacitance	C_{tot}	$V_R=0V, f=1MHz$	-	4	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA, I_R=60mA$ $R_L=100\Omega, I_{RR}=1mA$	-	4	ns



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RATINGS AND CHARACTERISTIC CURVES

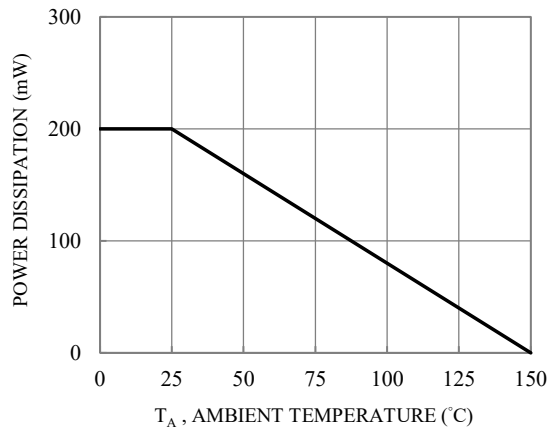


Fig.1-POWER DERATING CURVE

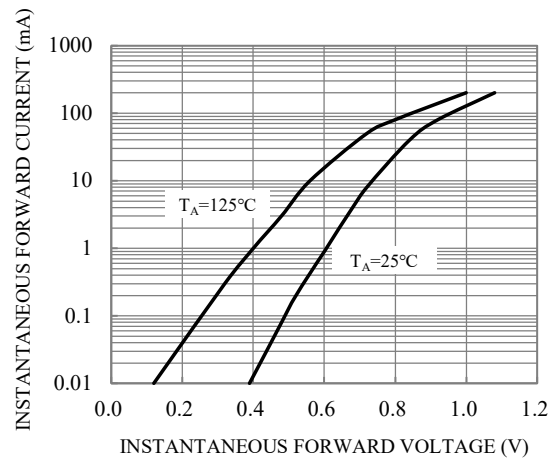


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

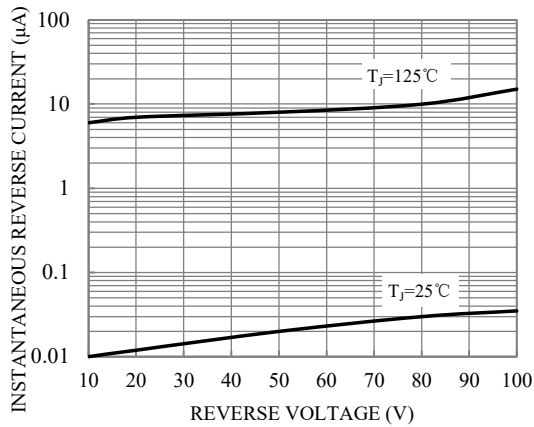


Fig.3-TYPICAL REVERSE CHARACTERISTICS

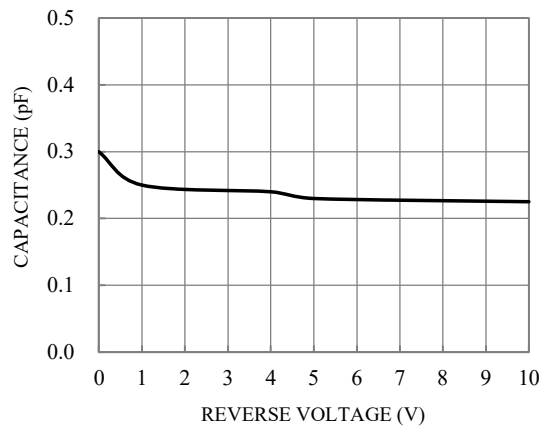


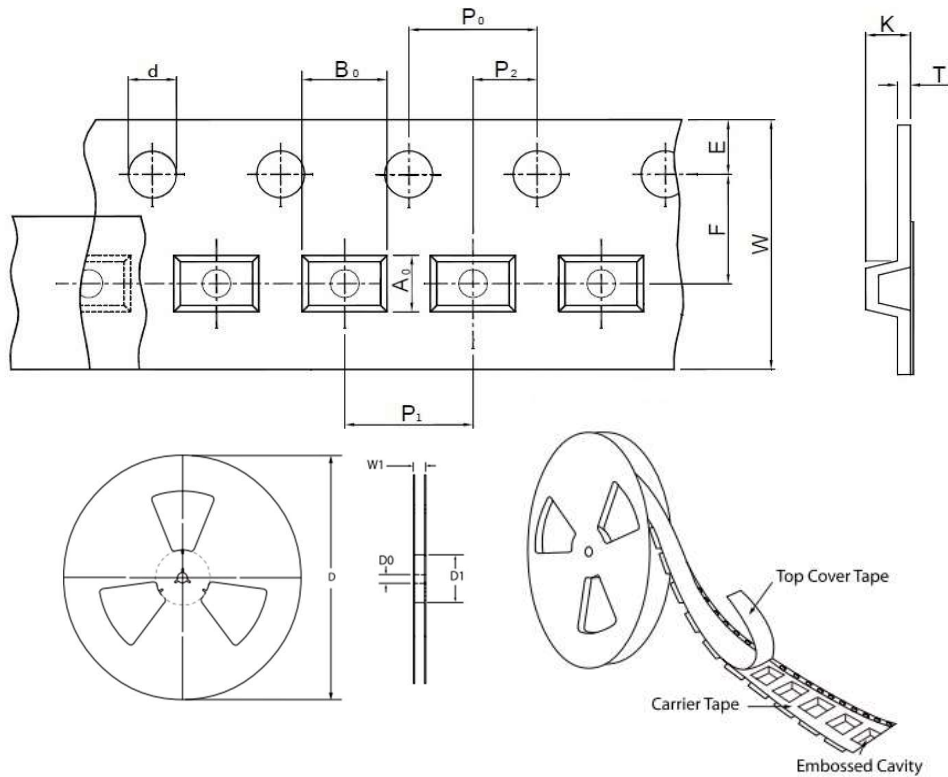
Fig.4- TOTAL CAPACITANCE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A ₀	2.95 ± 0.10
Carrier length	B ₀	1.43 ± 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
Sprocke hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocke 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	W1	MAX. 14.50

ORDER INFORMATION

Part Number	Reel Size	Quantity
1N4148WSH	7"	3,000

MARKING CODE

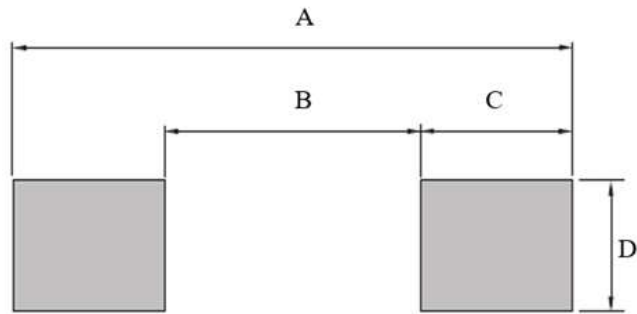
Part Number	Marking Code
1N4148WSH	S1



1N4148WSH

FAST SWITCHING DIODES

TAPE & REEL SPECIFICATION



Unit : mm

PACKAGE	A	B	C	D
SOD-323	3.00	1.40	0.80	0.90