



1N6263WH

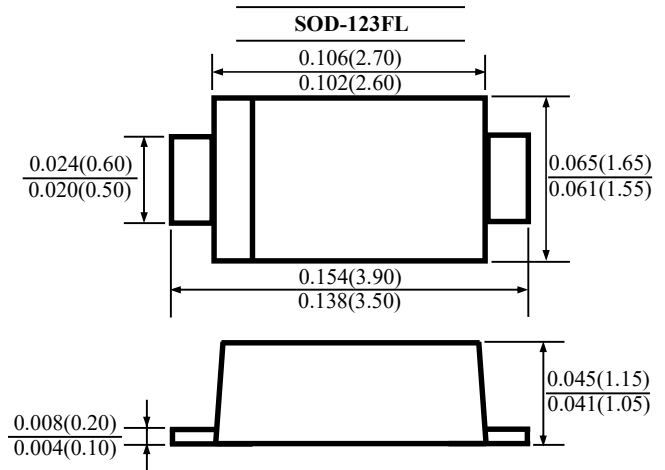
SURFACE MOUNT SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage
- Low Reverse Capacitance
- Suffix "H" indicates Halogen-free parts, ex. 1N6263WH

MECHANICAL DATA

- Case : SOD-123FL
- Polarity : Band Indicates Cathode



Dimensions in inch and (millimeter)

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
DC Blocking Voltage	V_R	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Forward Current	I_F	15	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	at $t=10\mu\text{s}$	2
		at $t=1\text{s}$	50
Power Dissipation	P_D	333	mW
Typical Thermal Resistance from Junction to Ambient (Note 1)	$R_{\theta JA}$	300	$^\circ\text{C} / \text{W}$
Operating Junction Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	

Note:

1. Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

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

Parameter	Test condition	Symbol	MIN.	MAX.	Unit
Reverse Breakdown Voltage	$I_R=100\mu\text{A}$	$V_{(BR)R}$	60	-	V
Forward Voltage	$I_F=1\text{mA}$	V_F	-	0.41	V
	$I_F=15\text{mA}$		-	1.00	
Reverse Current	$V_R=50\text{V}$	I_R	-	200	nA
Total Capacitance	$V_R=0, f=1\text{MHz}$	C_{tot}	-	2.2	pF
Reverse Recovery Time	$I_F=I_R=5\text{mA}, I_{tr}=0.1\times I_R,$ $R_L=100\Omega$	t_{rr}	-	1	ns



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RATINGS AND CHARACTERISTIC CURVES

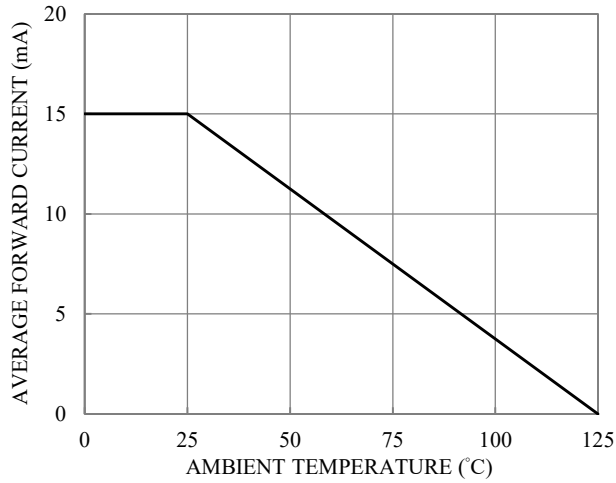


Fig.1-FORWARD CURRENT DERATING CURVE

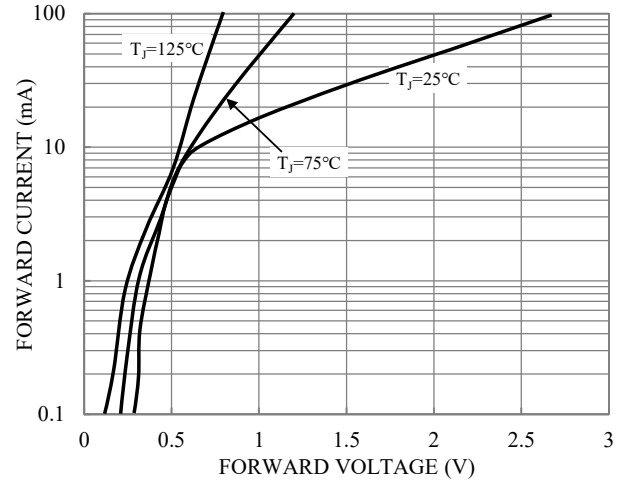


Fig.2-FORWARD CHARACTERISTICS CURVE

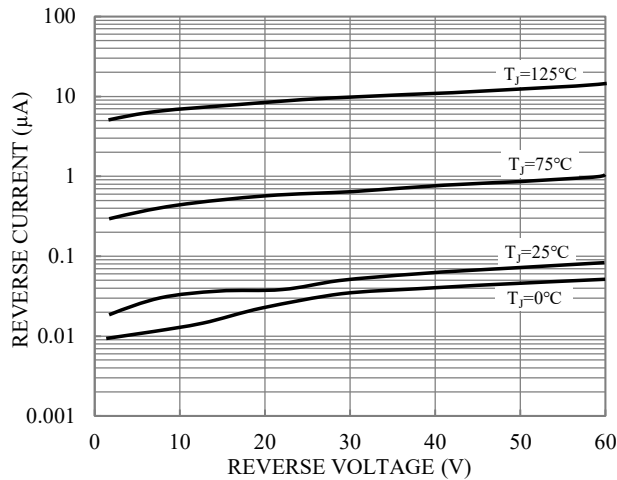


Fig.3-TYPICAL REVERSE CHARACTERISTICS

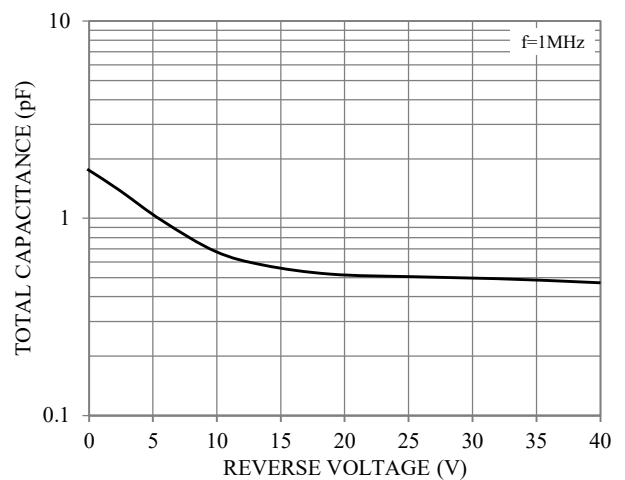


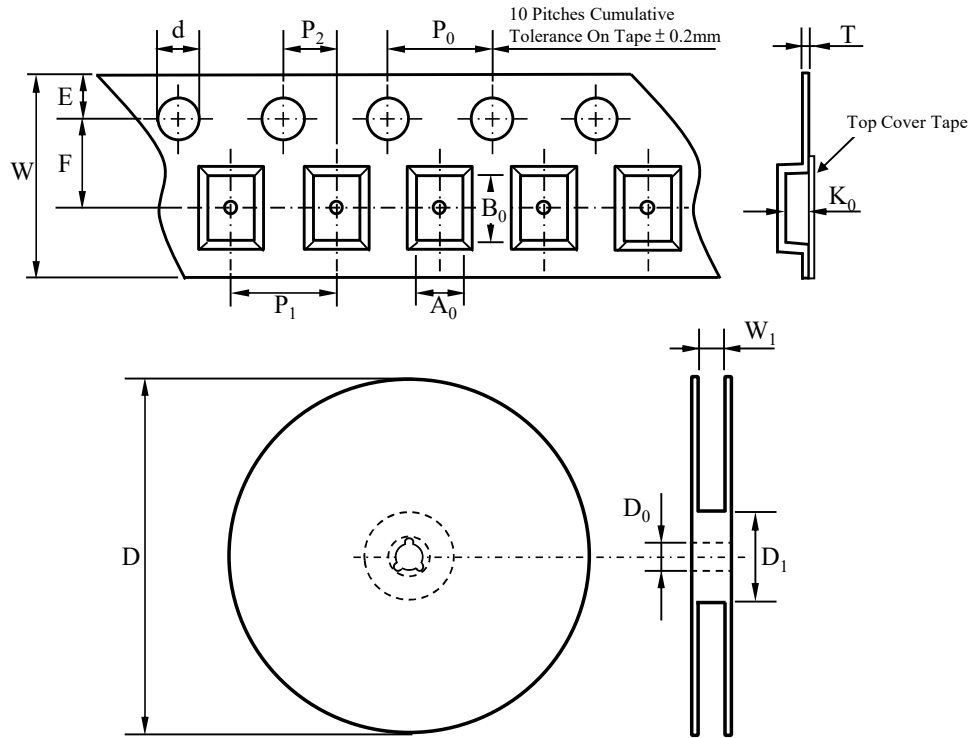
Fig.4-TYPICAL TOTAL CAPACITANCE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-123FL
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	MAX. 8.30
Reel width	W_1	MAX. 14.90

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

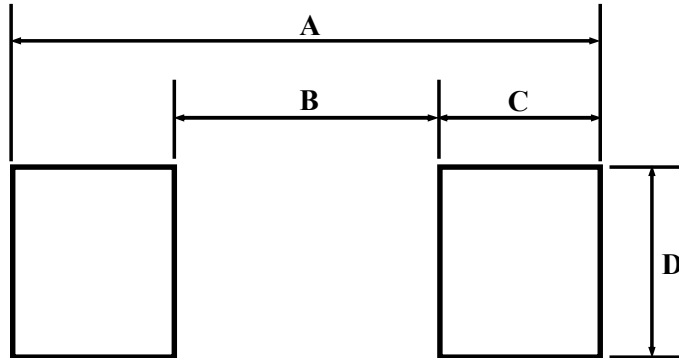
Part Number	Marking Code	Reel Size	Quantity
1N6263WH	SM	7"	3,000



1N6263WH

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SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
SOD-123FL	4.10	2.00	1.05	1.50