

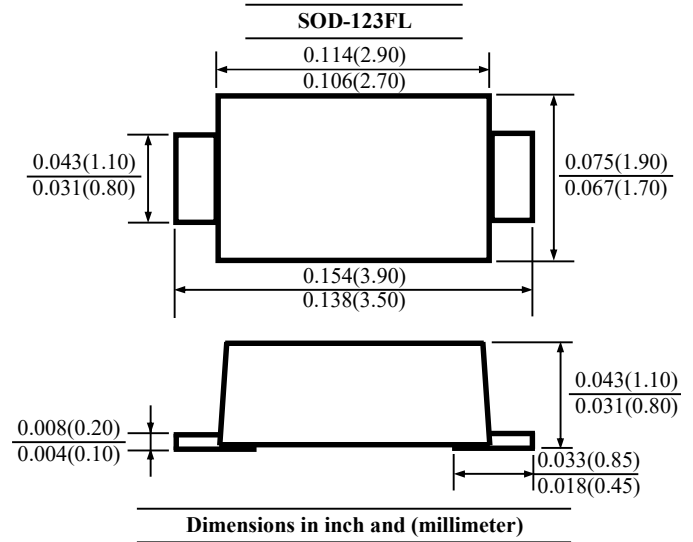


SD13LFLH

SCHOTTKY DIODES

FEATURES

- Very Low Forward Voltage Drop
- Suffix "H" indicates Halogen-free parts, ex. SD13LFLH



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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	I_F	1	A
Non-Repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	22	A
Operating Junction Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	$I_F=1\text{A}$	V_F	-	-	0.42	V
Reverse Current	$V_R=30\text{V}$	I_R	-	-	50	μA



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RATINGS AND CHARACTERISTIC CURVES

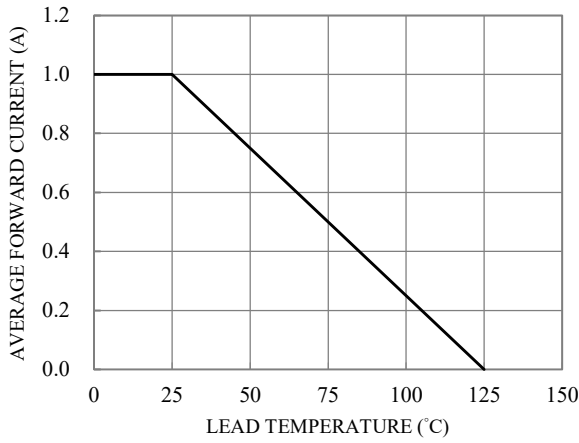


Fig.1-FORWARD CURRENT DERATING CURVE

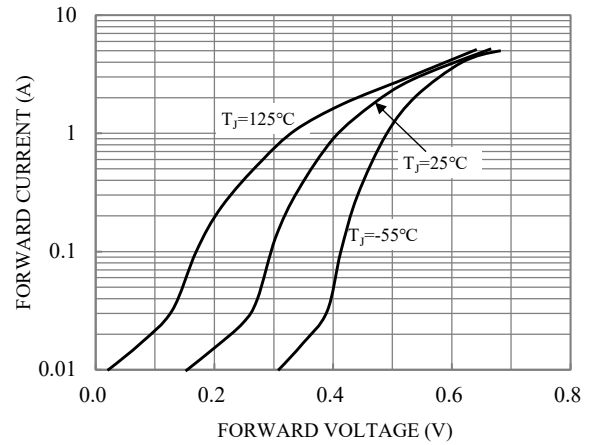


Fig.2-TYPICAL FORWARD CHARACTERISTICS

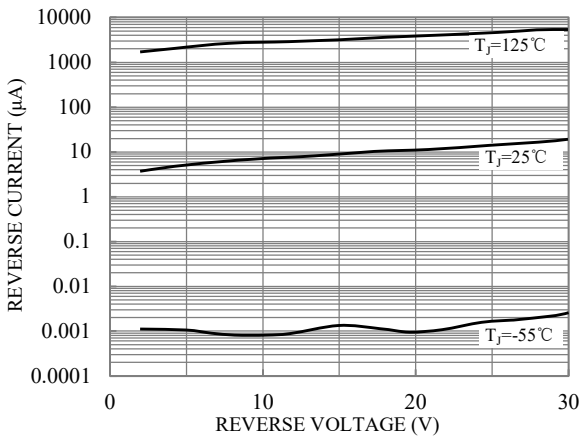


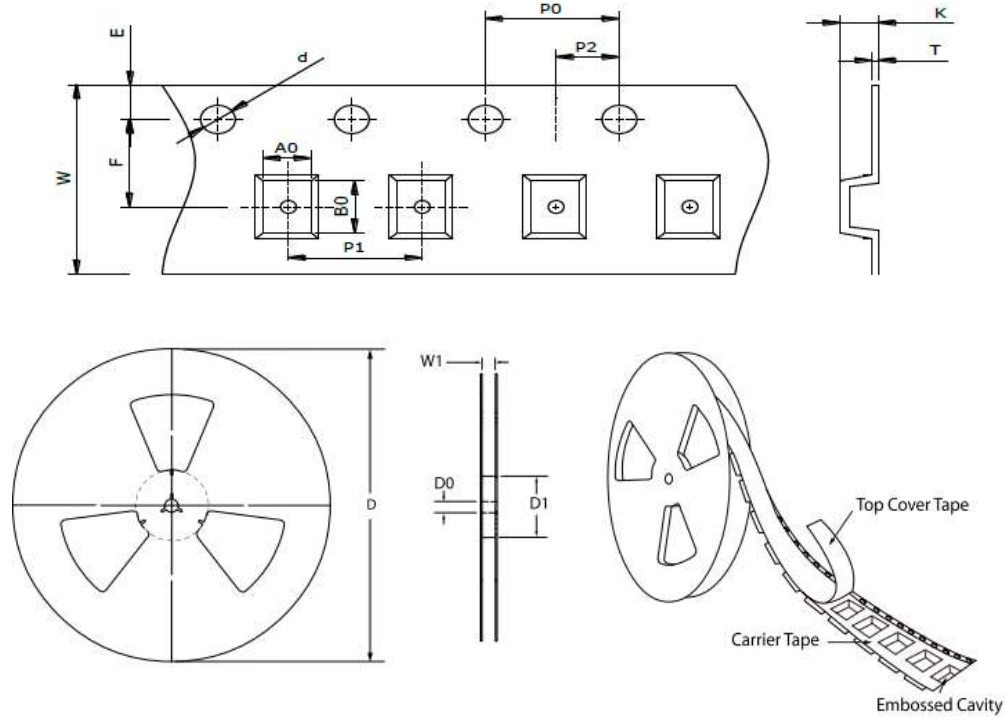
Fig.3-TYPICAL REVERSE CHARACTERISTICS



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-123FL
Carrier width	A ₀	4.15 ± 0.10
Carrier length	B ₀	2.15 ± 0.10
Carrier depth	K	1.60 ± 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. 54.00
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. 0.25
Tape width	W	8.00 ± 0.30
Reel width	W ₁	8.40 ± 1.50

ORDER INFORMATION

Package	Reel Size	Quantity
SOD-123FL	7"	3,000

MARKING CODE

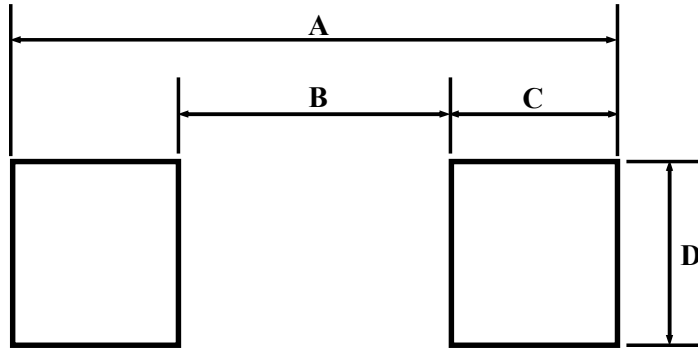
Part Number	Marking Code
SD13LFLH	HO



SD13LFLH

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit :mm

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