



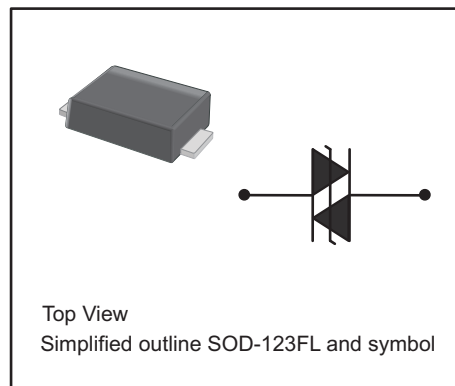
1-Line, Bi-directional, Thyristor Surge Suppressors

DESCRIPTION

TSS thyristors are a type of semiconduct component.
They are designed for transient surge protection.

FEATURES

- Excellent capability of absorbing transient surge
- Quick response to surge voltage (ns Level)
- Eliminates overvoltage caused by fast rising transients
- Does not degrade surge capability after multiple surge within limit
- Fails short circuit when surged in excess of ratings
- Low leakage current



MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg / 0.00053oz

ABSOLUTE MAXIMUM RATINGS(TA=25°C,RH=45%-75%,unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T_{stg}	-55 to+150	°C
Operating junction temperature range	T_j	-55 to+125	°C
Repetitive peak pulse current (10/1000us)	I_{PP}	35	A

ELECTRICAL CHARACTERISTICS(Ta=25°C,continued)

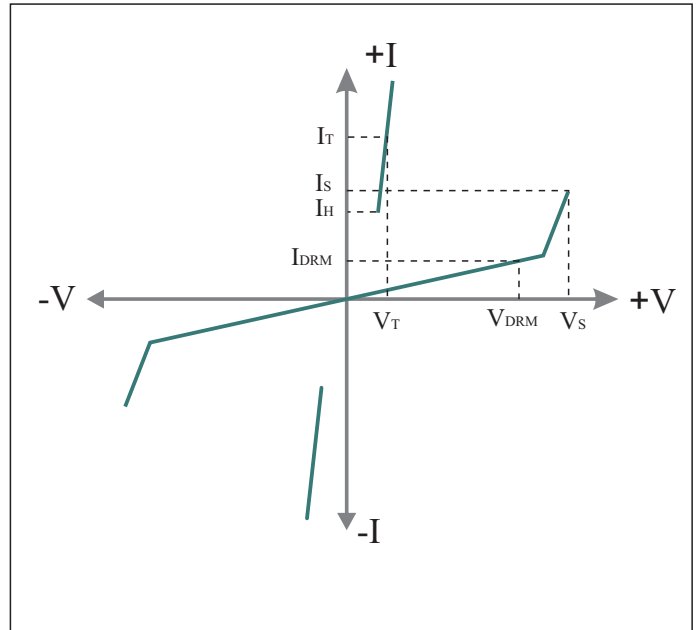
Part Number	V_{DRM}	I_{DRM}	V_s	I_s	I_H	V_T	I_T	$C_o^{(1)}$
	V	uA	V	mA	mA	V	A	pF
	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Typ.
P0300UMLN	27	1.0	40	800	50	4	2.2	30

(1) Off-state capacitance is measured in $V_{DC}=2V, f=1MHz$



ELECTRICAL CHARACTERISTICS (TA=25°C)

Symbol	Parameter
V_{DRM}	Peak off-state voltage
I_{DRM}	Peak off-state current
V_S	Switching voltage
I_S	Switching current
V_T	On-state voltage
I_T	On-state current
I_H	Holding current
C_o	Off-state capacitance

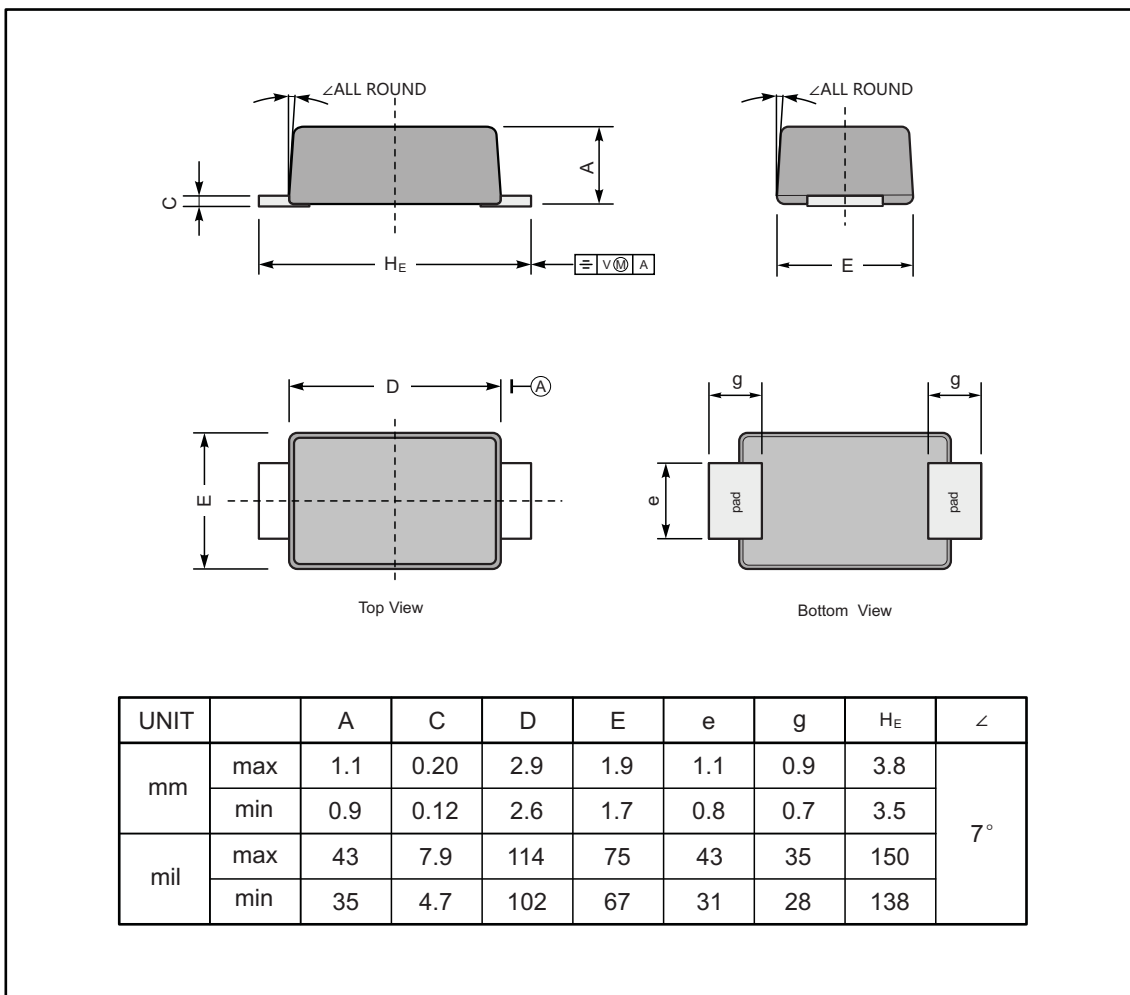




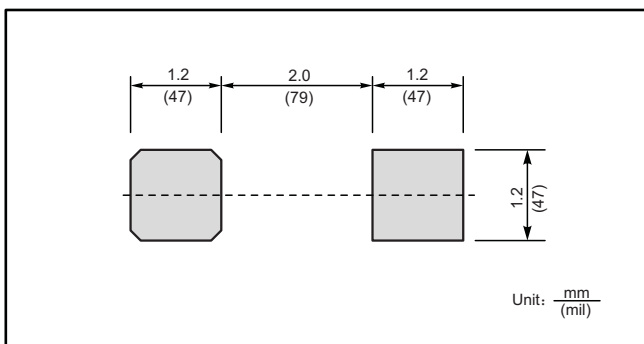
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



Marking

Type number	Marking code
P0300UMLN	03MN



Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.

Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Jingdao Microelectronics.

Jingdao Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of Jingdao Microelectronics.