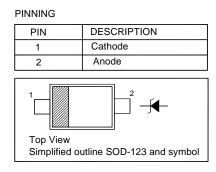
ESD Protection Diodes

Features

- Low clamping voltage
- Low leakage



Absolute Maximum Ratings (T_a = 25°C)

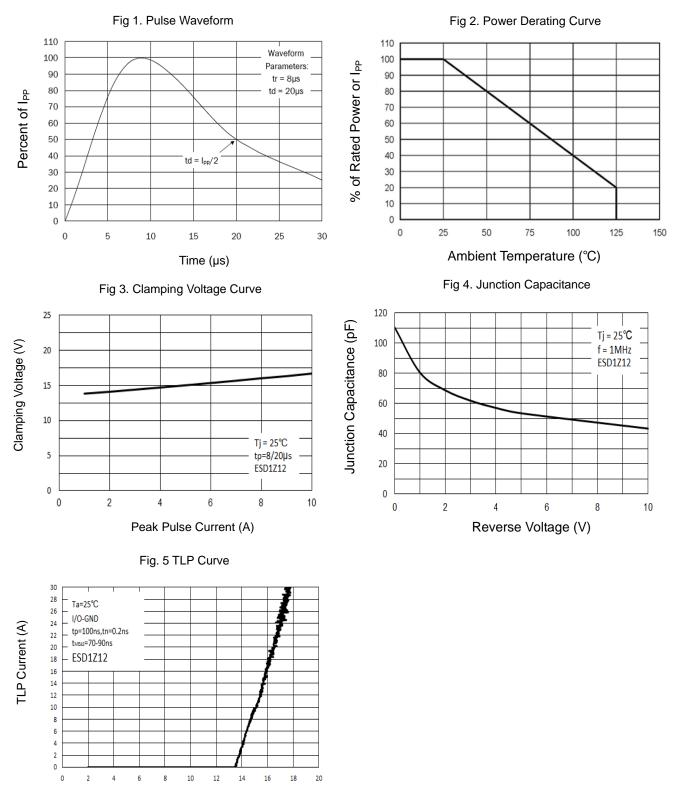
Parameter	Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)	P _{PK}	200	W
ESD (IEC61000-4-2) Air Conta	ct V _{ESD}	± 30	KV
Operating Junction Temperature	Tj	150	C°
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25°C

	Reverse Stand-off Voltage	Reverse Current	Breakdown Volt		age	Clamping Voltage	
Туре	Type V _{RWM}		V _{BR}		at I_T	Vc	at I _{PP}
	Max. (V)	Max.(µA)	Min.(V)	Max.(V)	mA	Max.(V)	А
ESD1Z5V0	5	400	6.4	7	10	9.2	21.7
ESD1Z12	12	2.5	13.3	14.7	1	19.9	10.1



Electrical Characteristics Curves



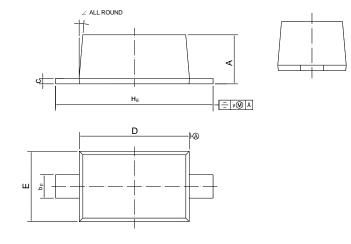
Dated : 28/07/2023 Rev:03

TLP Voltage (V)

PACKAGE OUTLINE

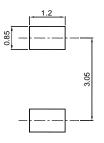
Plastic surface mounted package; 2 leads

SOD-123



1	UNIT	А	bp	с	D	E	H _E	v	2
	mm	1.15 1.05	0.6 0.5	0.135 0.100	2.7 2.6	1.65 1.55	3.85 3.55	0.2	5°

Recommended Soldering Footprint



Packing information

Dookogo	Tape Width	Pitch		Reel Size		Der Deel Deelving Quentity
Package	(mm)	mm	(inch)	mm	(inch)	Per Reel Packing Quantity
SOD-123	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" ** " = Part No.

Туре	Marking	Туре	Marking
ESD1Z5V0	ESD1Z5V0 1U		2U

" III " = Cathode line

Font type: Arial



Disclaimer: Our company reserve the right to make modifications, enhancements, improvements, corrections or other changes to improve product design, functions and reliability, anytime without notice. Semtech Electronics Limited makes no warranties, representations or warranties regarding the suitability of its products for any particular purpose, and does not accept any liability arising from the application or use of any product or circuit such as: Apply to medical, military, aircraft, space or life support equipment and expressly waive any and all liability, including but not limited to special, consequential or collateral damage.

