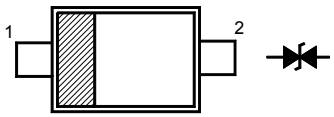
E5V0SBWA1A-CH

ESD Protection Diode

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



Top View
Simplified outline SOD-123 and symbol

Features

- AEC-Q101 Qualified
- Low capacitance
- Low leakage current
- Halogen and Antimony Free(HAF), RoHS compliant

Absolute Maximum Ratings (T_a = 25℃ unless otherwise specified)

Parameter		Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)		P_{PK}	30	W
Peak Pulse Current (tp = 8/20 μs)		I_{PP}	3	A
IEC61000-4-2 (ESD)	Air Contact	V_{ESD}	± 30 ± 30	KV
Operating Junction Temperature		T_j	125	℃
Storage Temperature Range		T_{stg}	- 55 to + 150	℃

Characteristics at T_a = 25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	-	5	V
Reverse Breakdown Voltage at I_R = 1 mA	$V_{(BR)R}$	5.4	-	8	V
Reverse Current at V_{RWM} = 5 V	I_R	-	-	100	nA
Clamping Voltage at I_{PP} = 3 A, tp = 8/20 μs	V_C	-	-	10	V
Junction Capacitance at V_R = 0 V, f = 1 MHz	C_j	-	13	20	pF

Dated : 21/07/2025 Rev : 01

Electrical Characteristic Curves

Fig 1. Pulse Waveform

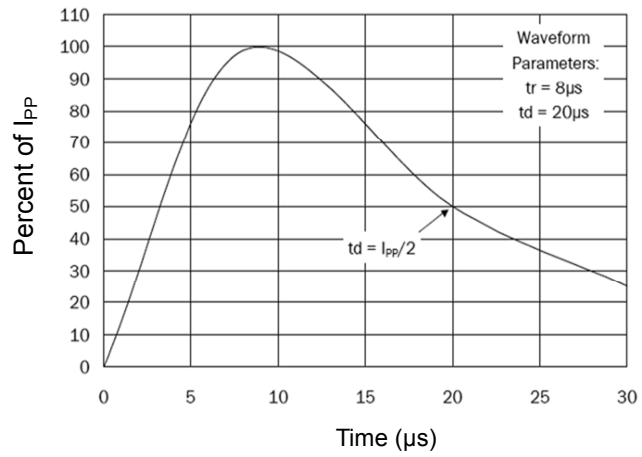


Fig 2. Power Derating Curve

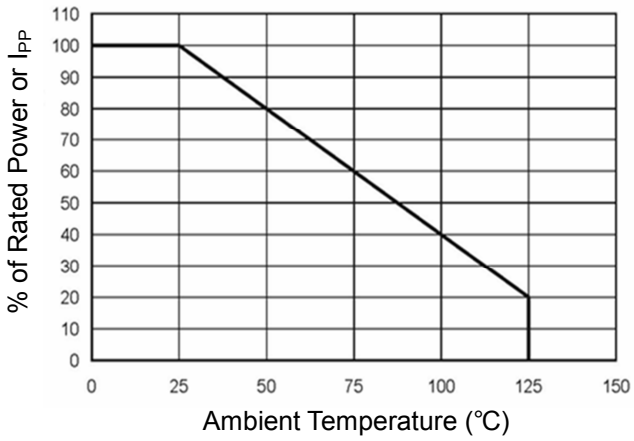


Fig 3. Clamping Voltage Curve

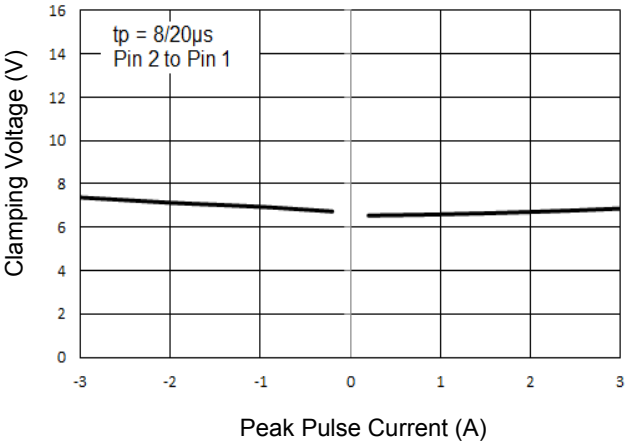
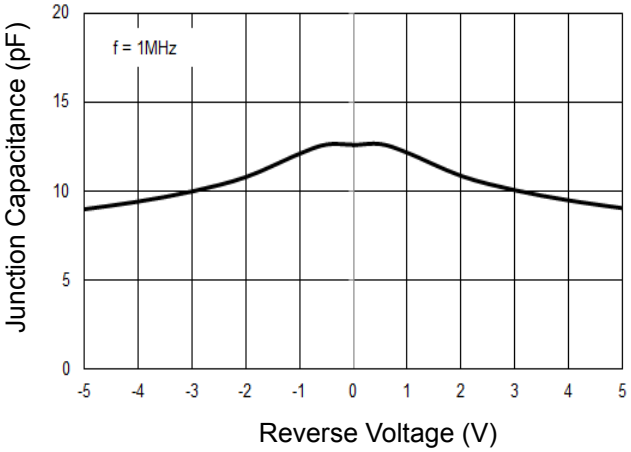


Fig 4. Junction Capacitance



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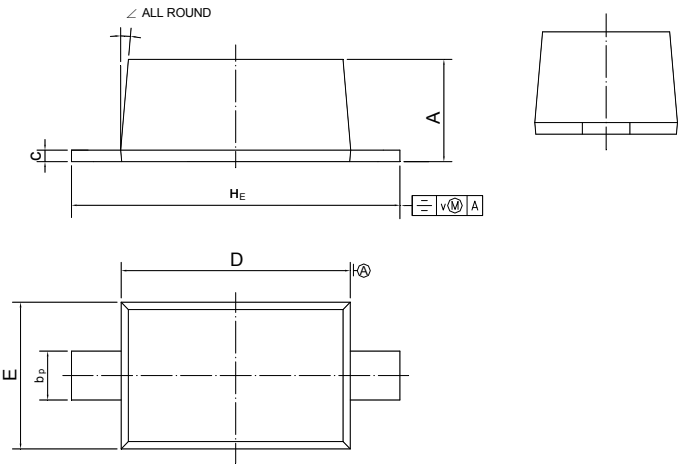
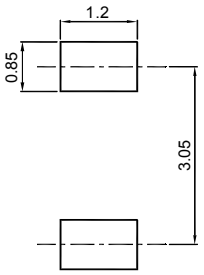
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads SOD-123



UNIT	A	b_p	c	D	E	H_E	v	∠
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

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

Marking information

" ZZ1 " = Part No.

" III " = Marking line

" • " = HAF (Halogen and Antimony Free)

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