



P4HE3.3A-AU ~ P4HE64A-AU Series

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Voltage

3.3~64 V

Power

400 W

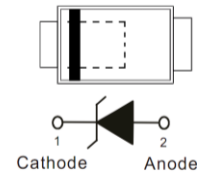
Features

- Ultra thin profile package for space constrained utilization.
- High temperature soldering: 260 °C/10 seconds at terminals
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

- Case: Molded plastic, SOD-123HE
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.0006 ounces, 0.0184 grams

SOD-123HE



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation(tp = 10/1000 us)	P _{PP} ^(1,2)	400	W
Peak Pulse Current on tp = 10/1000 us waveform ^(Fig.2)	I _{PPM} ⁽¹⁾	See table 1	A
ESD IEC61000-4-2(Air)	V _{ESD}	±30	kV
ESD IEC61000-4-2(Contact)		±30	
Typical Thermal Resistance Junction to Ambient	R _{θJA} ⁽³⁾	185	°C/W
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-65~150	°C



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Part Number	V_{RWM}	V_{BR}			$I_R@V_{RWM}$	$V_C@I_{PP}$		Marking Code
		Min.	Max.	I_T		V	A	
	V	V	V	mA	μA			
400W Transient Voltage Suppressor								
P4HE3.3A-AU	3.3	5.2	6	10	100	8.5	47	4F1
P4HE5.0A-AU	5	6.4	7	10	50	9.2	43.5	4F2
P4HE6.0A-AU	6	6.67	7.37	10	50	10.3	38.8	4F3
P4HE6.5A-AU	6.5	7.22	7.98	10	40	11.2	35.7	4F4
P4HE7.0A-AU	7	7.78	8.6	10	40	12	33.3	4F5
P4HE7.5A-AU	7.5	8.33	9.21	1	30	12.9	31	4F6
P4HE8.0A-AU	8	8.89	9.83	1	5	13.6	29.4	4F7
P4HE8.5A-AU	8.5	9.44	10.4	1	5	14.4	27.8	4F8
P4HE9.0A-AU	9	10	11.1	1	0.5	15.4	26	4F9
P4HE10A-AU	10	11.1	12.3	1	0.5	17	23.5	4FA
P4HE11A-AU	11	12.2	13.5	1	0.5	18.2	22	4FB
P4HE12A-AU	12	13.3	14.7	1	0.5	19.9	20.1	4FC
P4HE13A-AU	13	14.4	15.9	1	0.1	21.5	18.6	4FD
P4HE14A-AU	14	15.6	17.2	1	0.1	23.2	17.2	4FE
P4HE15A-AU	15	16.7	18.5	1	0.1	24.4	16.4	4FF
P4HE16A-AU	16	17.8	19.7	1	0.1	26	15.4	4FH
P4HE17A-AU	17	18.9	20.9	1	0.1	27.6	14.5	4FJ
P4HE18A-AU	18	20	22.1	1	0.1	29.2	13.7	4FK
P4HE20A-AU	20	22.2	24.5	1	0.1	32.4	12.3	4FL
P4HE22A-AU	22	24.4	26.9	1	0.1	35.5	11.3	4FM
P4HE24A-AU	24	26.7	29.5	1	0.1	38.9	10.3	4FN
P4HE26A-AU	26	28.9	31.9	1	0.1	42.1	9.5	4FP
P4HE28A-AU	28	31.1	34.4	1	0.1	45.4	8.8	4FR
P4HE30A-AU	30	33.3	36.8	1	0.1	48.4	8.3	4FT
P4HE33A-AU	33	36.7	40.6	1	0.1	53.3	7.5	4FU
P4HE36A-AU	36	40	44.2	1	0.1	58.1	6.9	4FV
P4HE40A-AU	40	44.4	49.1	1	0.1	64.5	6.2	4FW
P4HE43A-AU	43	47.8	52.8	1	0.1	69.4	5.8	4FX
P4HE45A-AU	45	50	55.3	1	0.1	72.7	5.5	4FY
P4HE48A-AU	48	53.3	58.9	1	0.1	77.4	5.2	4FZ
P4HE51A-AU	51	56.7	62.7	1	0.1	82.4	4.9	4H1



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Part Number	V_{RWM}	V_{BR}			$I_R@V_{RWM}$	$V_C@I_{PP}$		Marking Code
		Min.	Max.	I_T		V	A	
	V	V	V	mA	uA			
400W Transient Voltage Suppressor								
P4HE54A-AU	54	60	66.3	1	0.1	87.1	4.6	4H2
P4HE58A-AU	58	64.4	71.2	1	0.1	93.6	4.3	4H3
P4HE60A-AU	60	66.7	73.7	1	0.1	96.8	4.1	4H4
P4HE64A-AU	64	71.1	78.6	1	0.1	103	3.9	4H5

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^\circ\text{C}$ per Fig.2
2. Mounted on 5mm^2 copper pads to each terminal
3. Mounted on a FR4 PCB, single-sided copper, mini pad
4. TVS is a transient protection device, it is strongly recommended not to use as a Zener



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TYPICAL CHARACTERISTIC CURVES

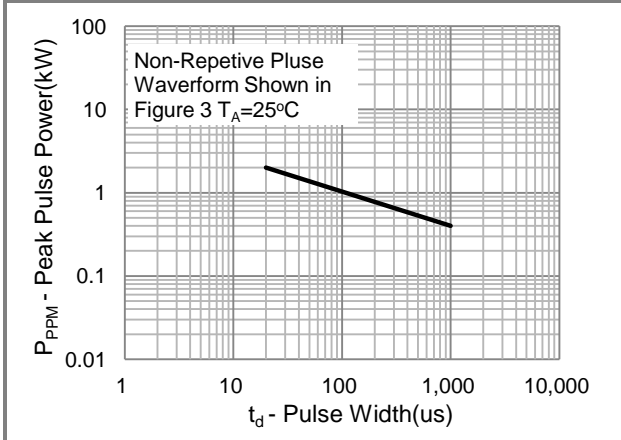


Fig.1 Pulse Power Rating Curve

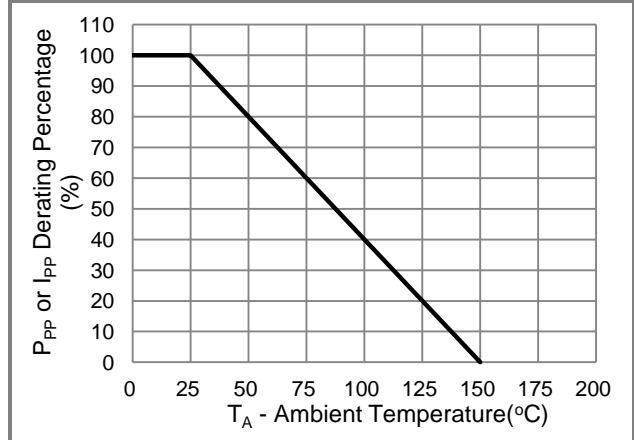


Fig.2 Derating Curve

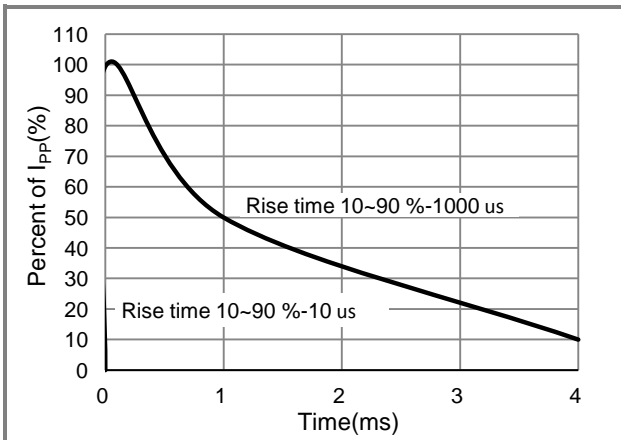


Fig.3 Pulse Waveform

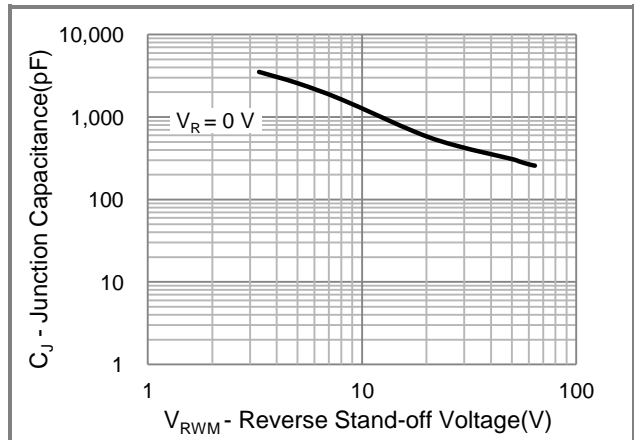


Fig.4 Typical Capacitance

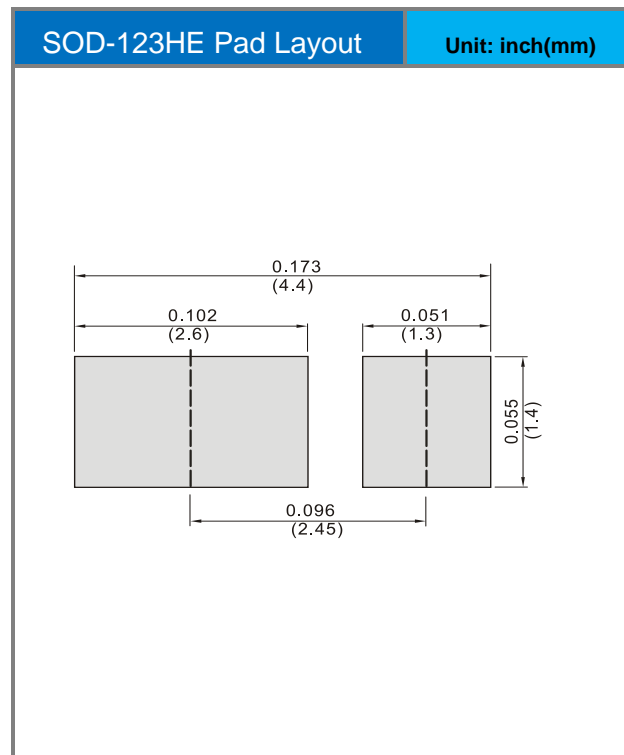
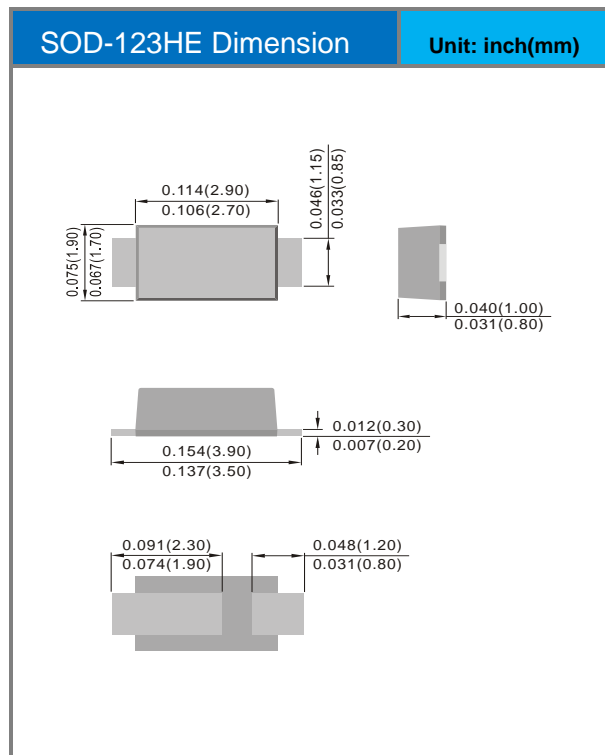


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
P4HExxxA-AU_R1_000A1	SOD-123HE	3K pcs / 7" reel	See Table	Halogen free

Packaging Information & Mounting Pad Layout





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