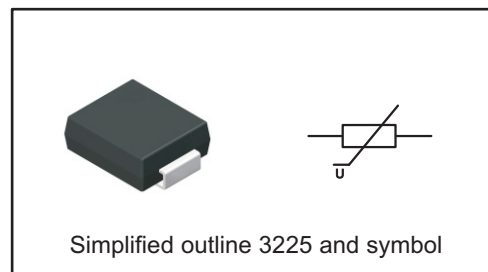


Surface-mount varistor device

### FEATURES

- Wide operating voltage (V1mA)  
Varistor Voltage - 600 V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no following-on current



### MECHANICAL DATA

- Case: 3225
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.505g / 0.0178oz

### Mechanical Requirements

Solderability	Min. 95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:265±5°C Immersed Time: 2±0.5Sec.
Resistance of soldering heat	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Solder Temp: 260±5°C
		Immersed Time: 10±1Sec.

### Enviromental Requirements

High Temperature Storage	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Ambient Temp: 125±2°C Duration:1000h		
Low Temperature Storage	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Ambient Temp: -40±2°C Duration:1000h		
High Humidity Storage/Damp Heat	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Ambient Temp: 40±2°C 90-95% R.H. Duration:1000h		
High Temperature Load	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Ambient temp:85±2°C Duration:1000h Load: Max. Allowable Voltage		
Damp Heat Load/ Humidity Load	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	1.Temperature : 40±2°C 2.Humidity : 90~95% RH 3.Rated working voltage applied 4.Time : 500±2 hours 5.Test after placing in ambient temperature for 24 hours.		
Temperature Cycle	$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$	Step	Temperature	Period
		1	-50°C	30min
		2	Room Temp	15min
		3	125°C	30min
4	Room Temp	15min		
Operating Temperature Range	-40°C ~ +125°C	-40°C ~ +125°C		
Storage Temperature Range	-55°C ~ +125°C	-55°C ~ +125°C		



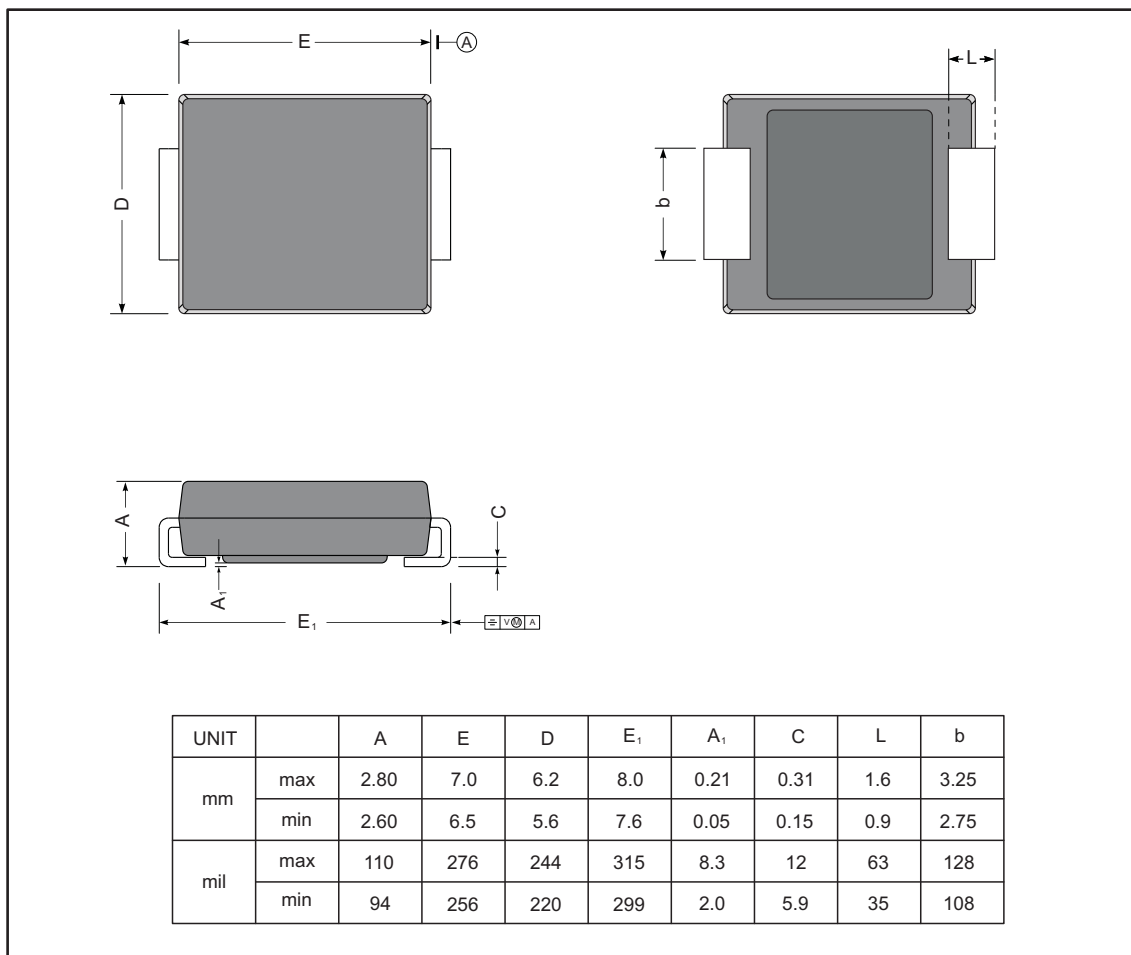
Characteristics at Ta = 25°C

Type Number	Marking	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Withstanding Surge Current	Maximum Energy	Rated Power	Typical Capacitance (Reference)
		V <sub>AC</sub>	V <sub>DC</sub>	V <sub>1mA</sub>	I <sub>T</sub>	V <sub>C</sub>				
		V	V	V	A	V	I(A)	(J)	W	@1KHz(pF)
3225D621KJ-1	5D621KJ1	395	510	600(575~615)	5	1025	500	25	0.1	40

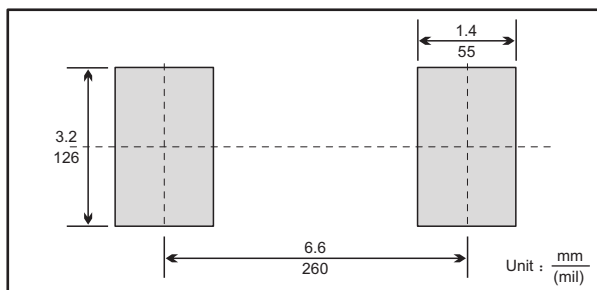
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

3225



### The recommended mounting pad size





### 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.