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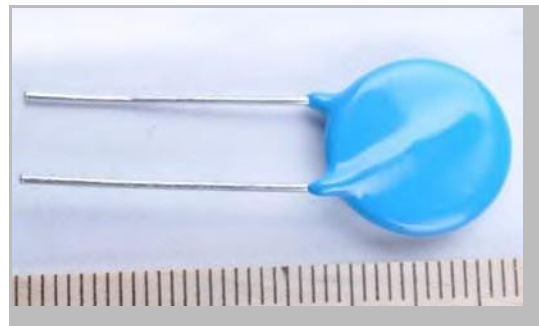
Metal Oxide Varistors

CH100E0J

Metal Oxide Varistors - CH100E0J

Features

1. Operating voltage (V_{1mA}) 90V to 110V.
2. Fast responding to transient over-voltage.
3. Large absorbing transient energy capability.
4. Low clamping ratio and no following-on current.



General Information

The MOV-CH100E0J of 25mm radial leaded varistor devices protects against overvoltage transients such as lightning, power contact and power induction. The metal oxide varistors with varistor voltages 90V to 110V and V_{rms} voltages 68V. The devices have a high current handling, high energy absorption capability and fast response times to protect against transient faults up to rated limits.

General Characteristics

No Radioactive Material Storage Temperature: -55°C to +125°C

Operating Temperature: -55°C to +85°C

Body: Nickel Plated

Leads: Surface-mount, Axial Devices: Tin Plated

Devices with No Leads: Nickel Plated

Electrical Characteristics

Type Number		Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Withstanding Surge Current	Maximum Energy (10/1000 μ s)	Typical Capacitance (Reference)
Standard	High Surge	$V_{AC}(V)$	$V_{DC}(V)$	$V_{1mA}(V)$	$I_P(A)$	$V_C(V)$	$I(A)$	(J)	@1KHz(pf)
CH100E0J	CH100E0J	68	91	90~110	156	177	16000	109	6200



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Current Energy and Power Dissipation Ratings

Should transients occur in rapid succession, the average power dissipation is the energy (watt-seconds) per pulse times the number of pulses per second. The power so developed must be within the specifications shown on the Device Ratings and Specifications Table for the specific device. The operating values of a MOV need to be derated at high temperatures as shown above. Because varistors only dissipate a relatively small amount of average power they are not suitable for repetitive applications that involve substantial amounts of average power dissipation.

Figure 1A - Power Derating for Epoxy Coated

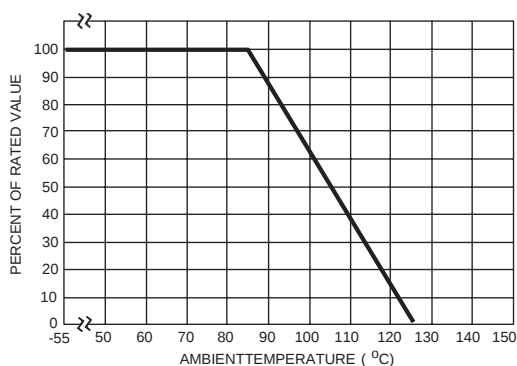
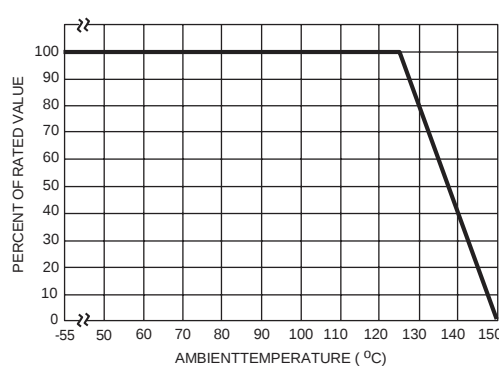
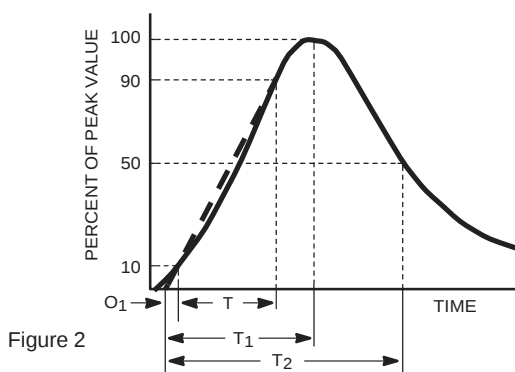


Figure 1B - Power Derating for Pholenic Coated



Peak Pulse Current Test Waveform



O_1 = Virtual Origin of Wave

T = Time from 10% to 90% of Peak

T_1 = Rise Time = $1.25 \times T$

T_2 = Decay Time

Example - For an 8/20 μ s Current Waveform:

$8\mu s = T_1$ = Rise Time

$20\mu s = T_2$ = Decay Time

Packaging

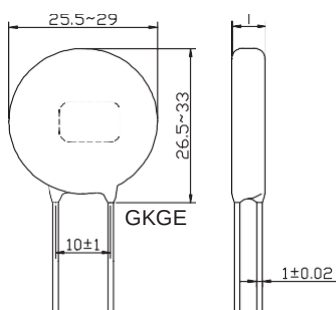
Part Number	Component Package	Quantity	Packaging Option	Packaging Specification
CH100E0J	25.0	200	BOX	400PCS

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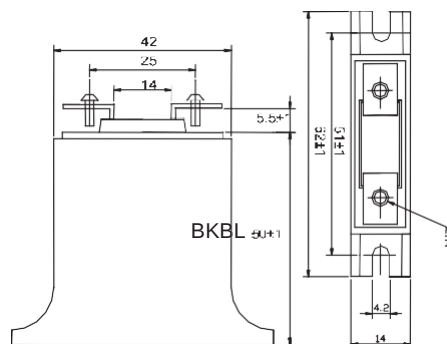
Structures and Dimensions

Unit:mm

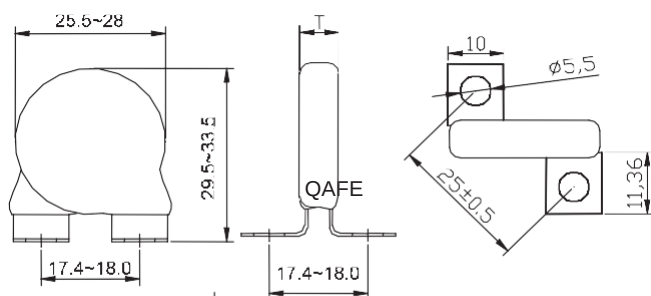
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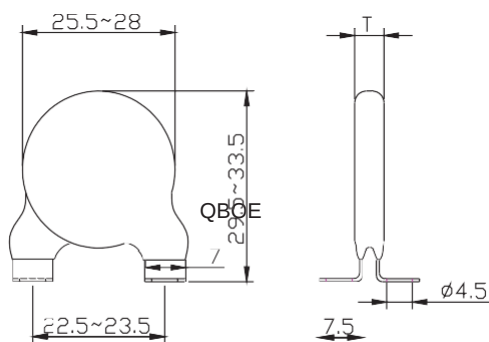
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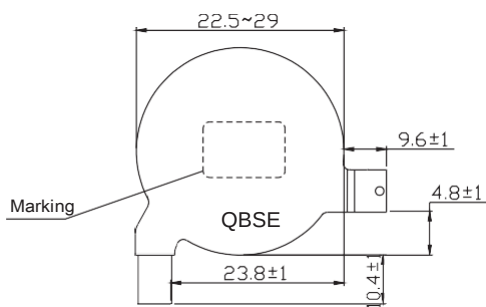
QAFE



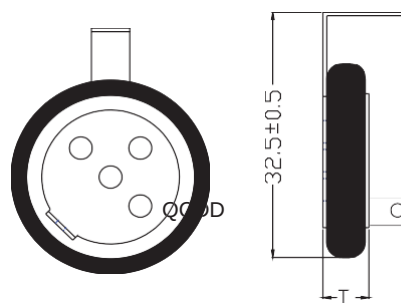
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QBSE

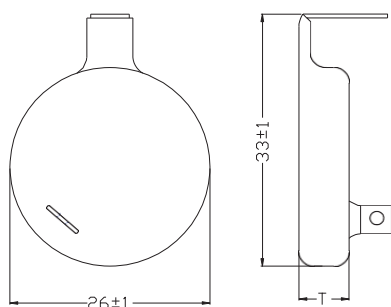


QCDD

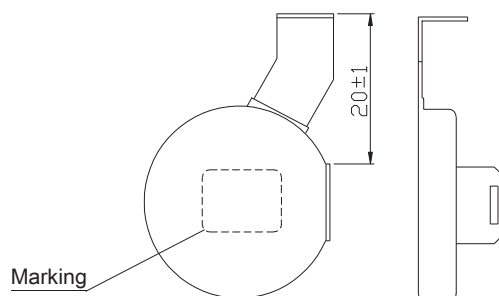


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QCDE



QCFE



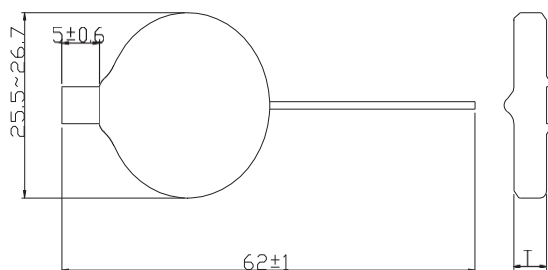
Note 1: T is the thickness of the product.

Note 2: The specifications of thickness are available upon request.

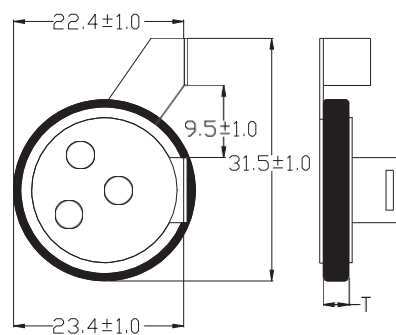
Structures and Dimensions

Unit:mm

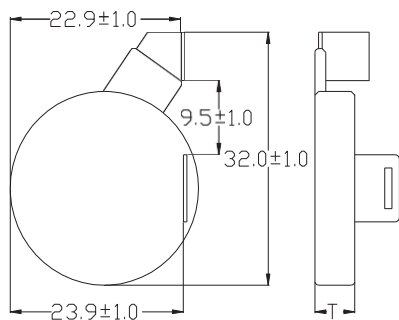
QCGE



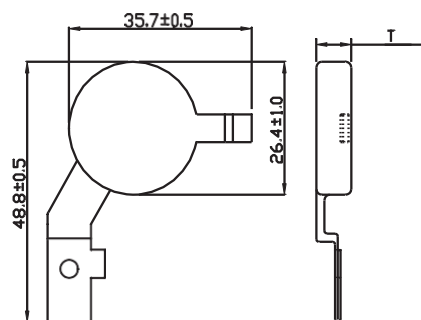
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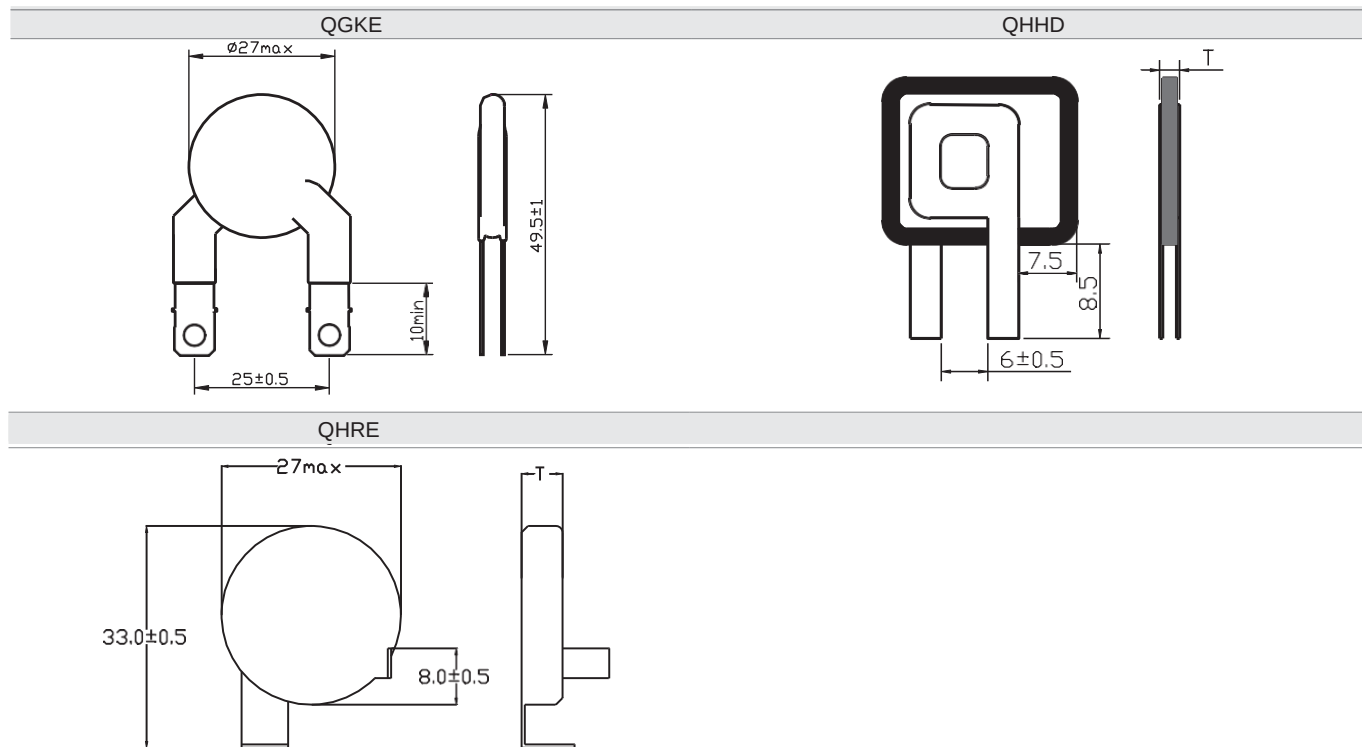
QDBE



QEPE



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Note 2: The specifications of thickness are available upon request.

Certificates



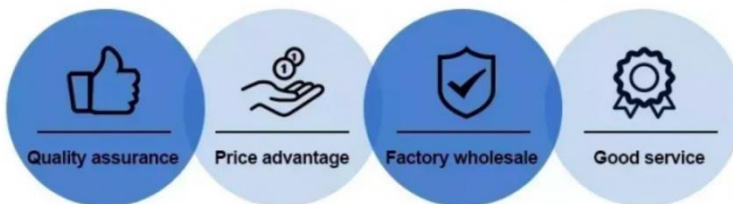


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Out partners



Our advantage:



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