

**CUI INC**

Part No: CST-931AP

Description: magnetic buzzer

Date: 1/30/2006


Unit: mm

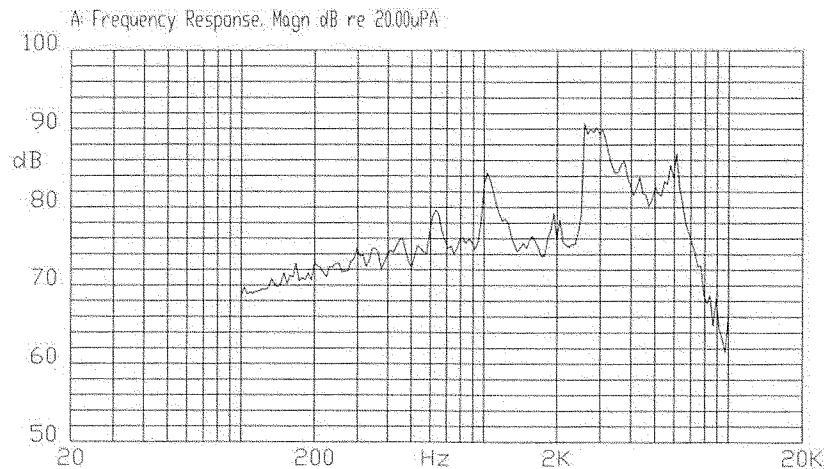
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**SCOPE**

This specification applies to magnetic buzzer, CST-931AP

**SPECIFICATION**

No.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	3.0	
2	Operating Volt.	Vo-p	2.0~4.0	
3	Mean Current	mA	Max. 80	Applying rated voltage, 2730Hz square wave, 1/2 duty
4	Coil Resistance	$\Omega$	$15.0 \pm 2.3$	
5	Sound Output	dBA	Min. 85 (Typical 92)	Distance at 10cm(A-weight free air). Applying rated voltage 2730Hz, square wave, 1/2 duty
6	Rated Frequency	Hz	2730	
7	Operating Temp.	$^{\circ}\text{C}$	-20 ~ +60	
8	Storage Temp.	$^{\circ}\text{C}$	-30 ~ +70	
9	Dimension	mm	$\phi 9.0 \times H4.5$	See attached drawing.
10	Weight	gram	0.6	
11	Material		PPO(Black)	
12	Terminal		Pin type (Plating Au)	See attached drawing.
13	Environmental Protection Regulation		RoHS	

**TYPICAL FREQUENCY RESPONSE CURVE**



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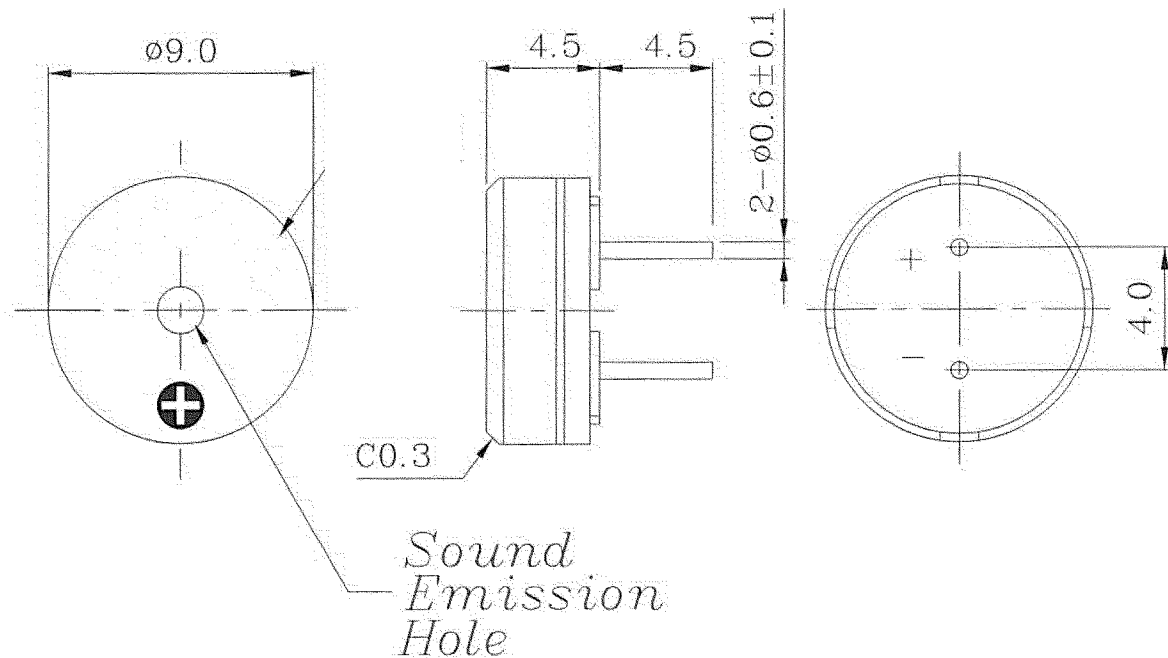
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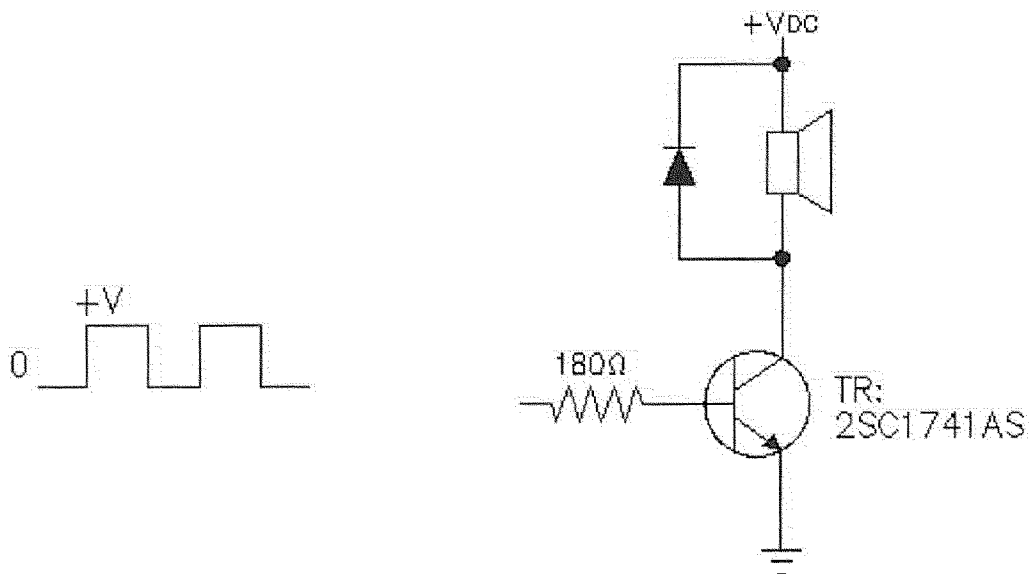
## APPEARANCE DRAWING



Tol:  $\pm 0.5$

Unit: mm

## MEASUREMENT METHOD





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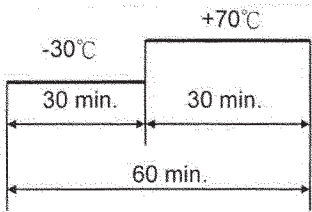
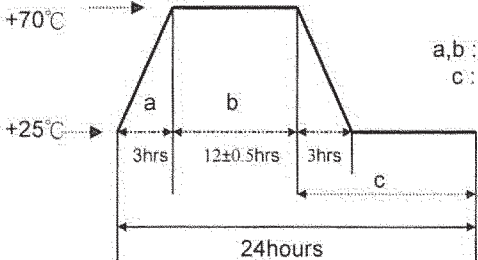
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**MECHANICAL CHARACTERISTICS**

No.	Item	Test condition	Evaluation standard
1	Solderability <sup>1</sup>	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm5^{\circ}\text{C}$ for $3\pm1$ seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of $+260\pm5^{\circ}\text{C}$ for $3\pm1$ seconds.	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage and cutting off
4	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in $\pm 10\text{dBA}$ compared with initial one.
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	

Notes: 1. Not recommended for wave soldering

**ENVIRONMENT TEST**

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at $+70^{\circ}\text{C}$ for 96 hours.	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at $+25^{\circ}\text{C}$ , the SPL should be in $\pm 10\text{dBA}$ .
2	Low temp. test	After being placed in a chamber at $-30^{\circ}\text{C}$ for 96 hours.	
3	Thermal Shock	The part shall be subjected to 10 cycles. One cycle shall consist of; 	
4	Temp./ Humidity Cycle	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of; 	

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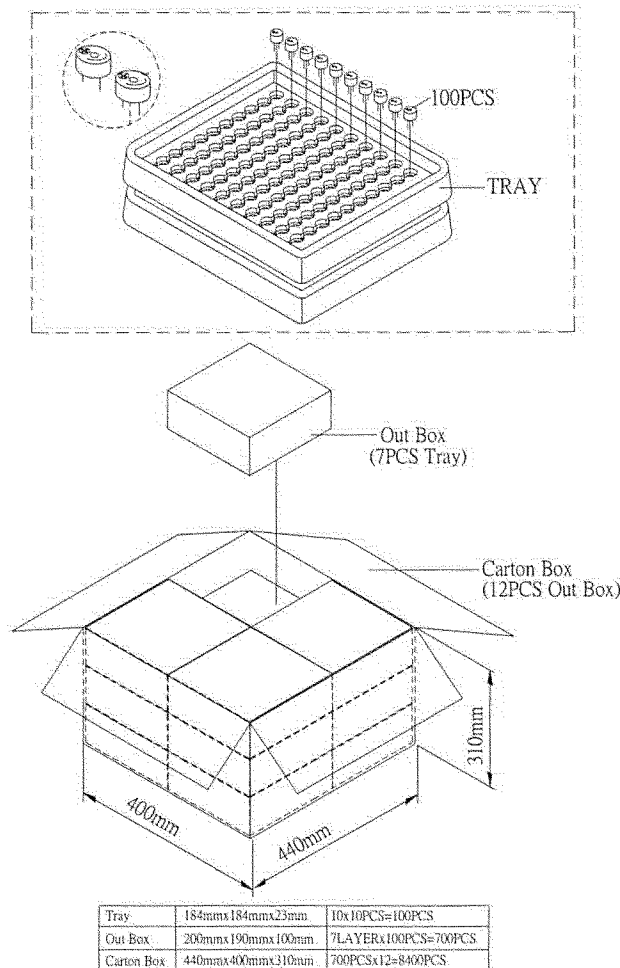
**RELIABILITY TEST**

No.	Item	Test condition	Evaluation standard
1	Operating life test	<p>1. Continuous life test The part shall be subjected to 72 hours at +45°C with 3V, 2730Hz applied.</p> <p>2. Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp. (+25±10°C) with 3V, 2730Hz applied.</p>	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25°C. the SPL should be in ±10dBA.

**TEST CONDITION.**

Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

Judgement Test Condition : a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

**PACKING STANDARD**

# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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