SPECIFICATION FOR APPROVAL

承　認　書

Description   :   **Magnetic Buzzer**

Kingstate Part No.   :   **KSTG951AP**

Customer's Model No.   :

Specification No.   :   **TKS-7128**

Number Of The Edition :   **1.2**

CUSTOMER'S APPROVED SIGNATURE		

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP.

Address: 10F, No. 69-11, Sec. 2, Chung Cheng E. Rd., Tamshui County, Taipei Hsien, Taiwan, R.O.C.

International sales dept.: TEL : 886-2-2809-5651   FAX:886-2-2809-7151

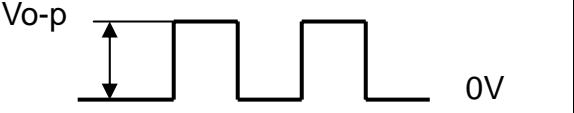Domestic sales dept.: TEL : 886-2-2809-0668   FAX:886-2-28096748

http : //www.kingstate.com.tw

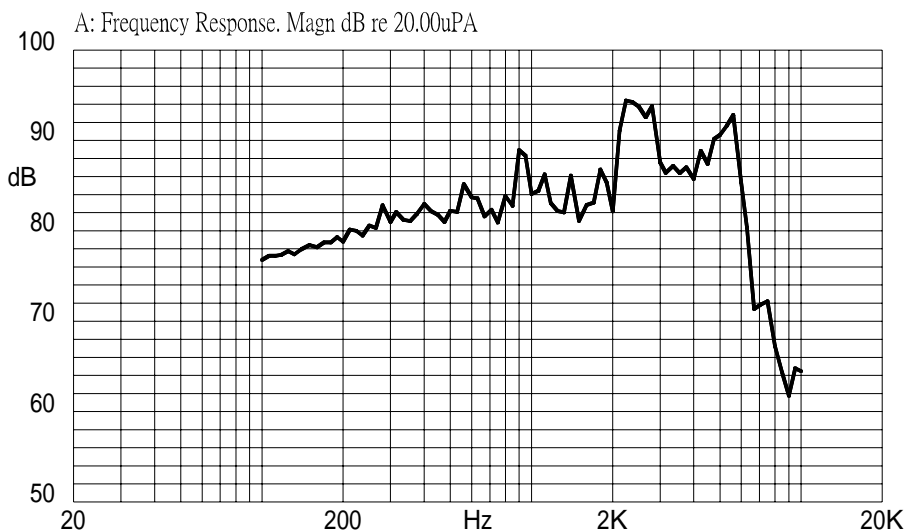| Approved by	Checked by	Issued by
鄭 3/7/06'	馮埈英 3/6/06'	Fei 3/03/06'

A. SCOPE

This specification applies magnetic buzzer, **KSTG951AP**
, **KSTG951AP**

B. SPECIFICATION

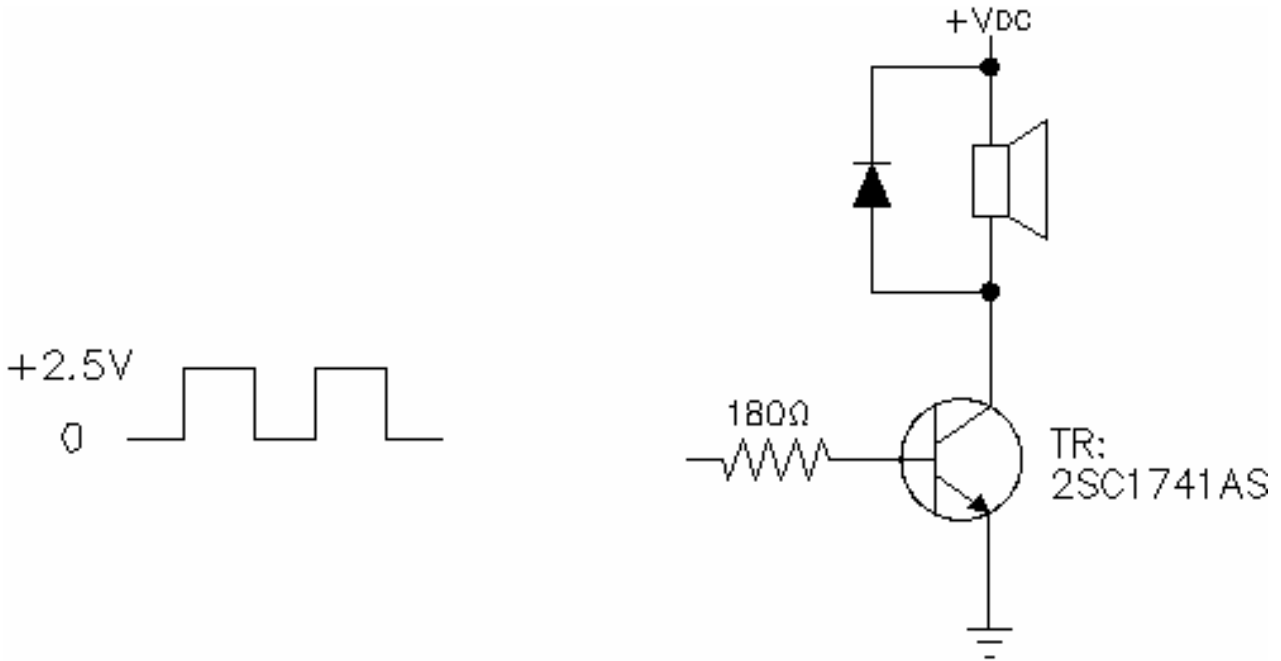| No.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	5.0	Vo-p
2	Operating Volt.	Vo-p	4.0 ~ 6.0	0V
3	Mean Current	mA	Max.80	Applying rated voltage,2730Hz square wave, 1/2duty ,2730Hz, , 50%
4	Coil Resistance		30 ± 4.5	
5	Sound Output	dBA	Min.85 (Typical 92)	Distance at 10cm(A-weight free air). Applying rated voltage 2730Hz,square wave, 1/2duty 10 , ,2730Hz, , 50%
6	Rated Frequency	Hz	2730	
7	Operating Temp.		-20 ~ +70	
8	Storage Temp.		-30 ~ +80	
9	Dimension	mm	9.0 × 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	

C. TYPICAL FREQUENCY RESPONSE CURVE

A: Frequency Response. Magn dB re 20.00uPA

D. APPEARANCE DRAWING

KSTG951AP

4.5 4.5

$2-\phi0.6\pm0.1$

$\phi9.0$

4.0

01	05--2005	
02	06--2006	

Sound
Emission
Hole
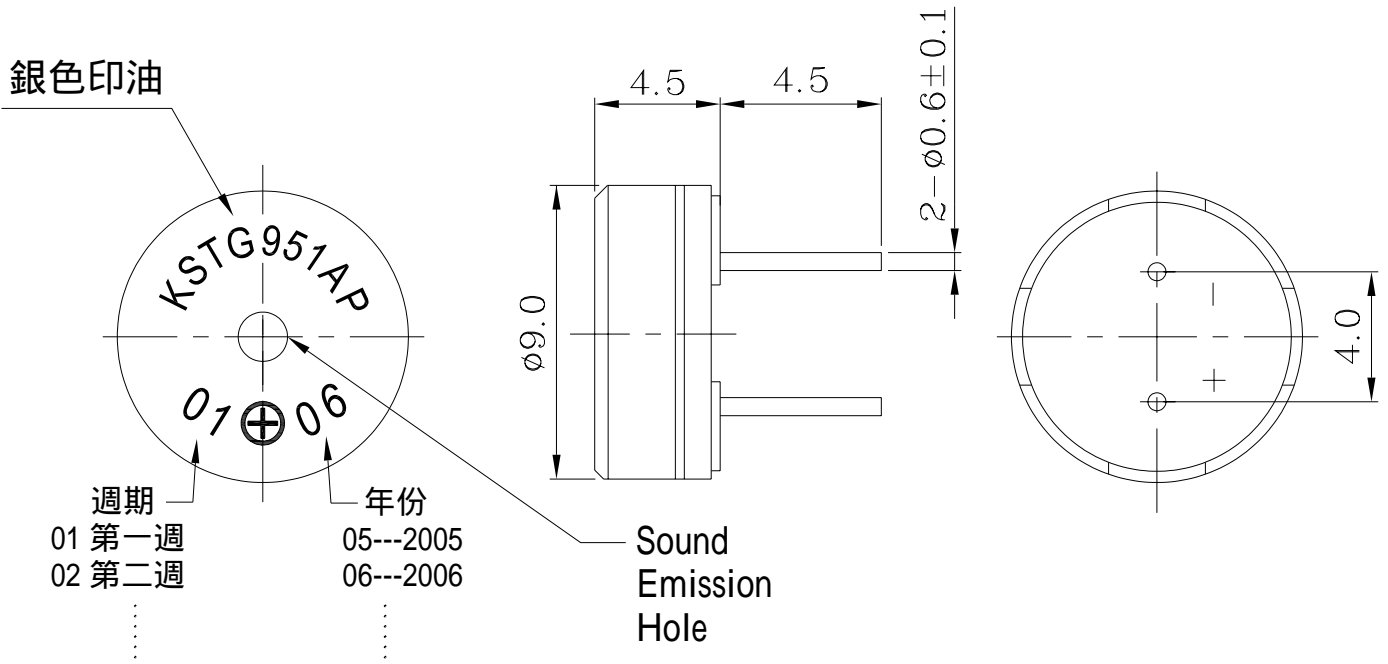
Tol: ± 0.5
Unit: mm
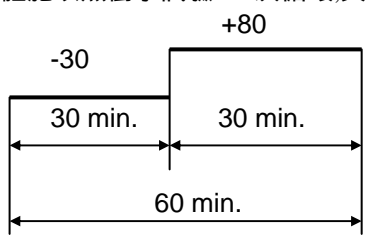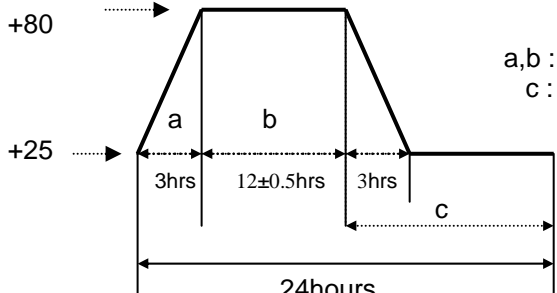
E. MEASUREMENT METHOD

+VDC

+2.5V
0

180Ω

TR:
2SC1741AS

F. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±1 seconds. 　　　　　　　　　　5 ，　　　+270±5　　　　　　　3±1 .	90% min. lead terminals shall be wet with solder. (Except the edge of terminal) 90% .( )
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5 for 3±1 seconds. 　　　1.5mm 　　，　　+260±5　　　　　3±1 .	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. 　　　　9.8N (1.0kg)　　　　10 .	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. 　　　10 55HZ　　　　1.5mm X.Y.Z 3 ， 2 .	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in ±10dBA 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). 　　　75 ， X.Y.Z.3 ， 3 ， 40mm .	， ， . ±10dBA .

G. ENVIRONMENT TEST

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +80 for 96 hours. +80 96	
2	Low temp. test	After being placed in a chamber at -30 for 96 hours. -30 96	
3	Thermal Shock	The part shall be subjected to 10 cycles. One cycle shall consist of; 　　　　　　　　10 ， :	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25 . the SPL should be in ±10dBA compared with initial one. ， +25 4 ， ， . ±10dBA .
4	Temp./ Humidity Cycle /	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of; 　　　　　/ 10 . a,b : 90~98%RH c : 80~98%RH	

H. RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating life test	1.Continuous life test ( ) The part shall be subjected to 72 hours at +55 with 5.0V ,2730Hz applied. 　+55 , 5.0V ,2730Hz 72 . 2.Intermittent life test ( ) A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp.(+25±10) with 5.0V ,2730Hz applied. 　　　(+25±10), 5.0V ,2730Hz 1 / 1 , 10000 .	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25 . the SPL should be in ±10dBA compared with initial one. 　　　, +25 　　　4 , 　, 　. ±10dBA .

TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35	b) Humidity : 45-85%	c) Pressure : 860-1060mbar		
	:	a) : +5 ~ +35	b) : 45-85%	c) : 860-1060mbar		
Judgement Test Condition	:	a) Temperature : +25 ± 2	b) Humidity : 60-70%	c) Pressure : 860-1060mbar		
	:	a) : +25 ± 2	b) : 60-70%	c) : 860-1060mbar		

I. PACKING STANDARD

Tray	184mmx184mmx23mm	10x10PCS=100PCS
Out Box	200mmx190mmx100mm	7LAYERx100PCS=700PCS
Carton Box	440mmx400mmx310mm	700PCSx12=8400PCS

KINGSTATE ELECTRONICS CORP 5/5   KSTG951AP