



请承认书

Version No.: V2.0

常州昊翔电子有限公司  
Changzhou HaoXiang Electronic Co., LTD

客户名称

CUSTOMER NAMER : \_\_\_\_\_

产品名称

COMMODITY : SMD MAGNETIC BUZZER

产品型号

MODEL NO : TDA-M85030-0527

客户料号

PART NO : \_\_\_\_\_

审核	秦皓	主办	曹升薪 Oct.22,2018
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客户承认栏			
承认		拒收	

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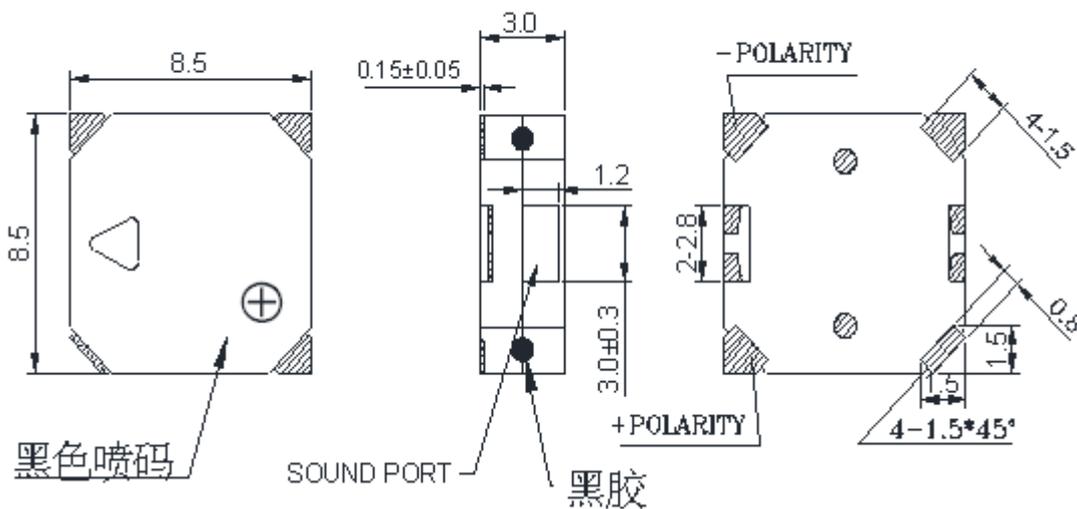
## A. SCOPE

This specification applies magnetic buzzer, **TDA-M85030-0527**

## B. SPECIFICATION

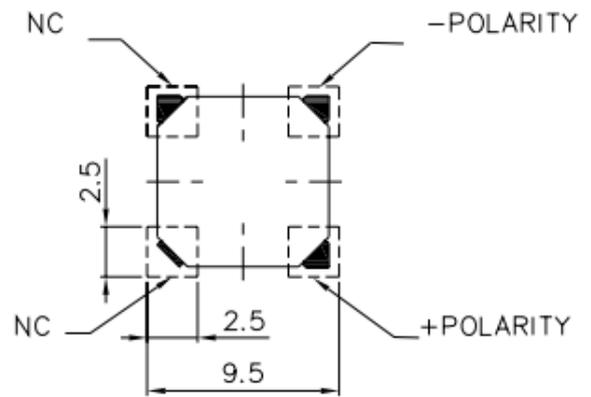
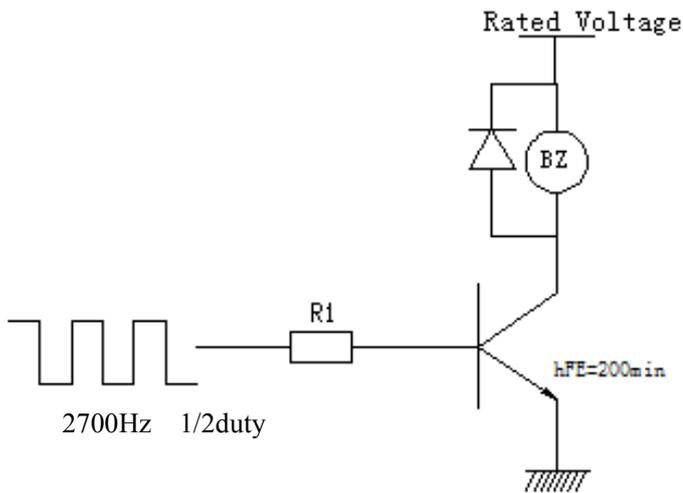
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700	Square Wave
2	Operating Voltage	Vdc	4 ~ 7	
3	Rated Voltage	Vdc	5	
4	Current Consumption	mA	MAX. 80	at 10cm ,5Vdc,2700Hz,1/2duty
5	Sound Pressure Level	dB	MIN. 85	at 10cm ,5Vdc,2700Hz,1/2duty
6	Coil Resistance	$\Omega$	30 $\pm$ 5	
7	Operating Temperature	$^{\circ}$ C	-30 ~ +70	
8	Storage Temperature	$^{\circ}$ C	-40 ~ +85	
9	Dimension	mm	8.5 x 8.5 x H3.0	See appearance drawing
10	Weight (MAX)	gram	0.6	
11	Housing Material		LCP( Black )	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

## C. APPEARANCE DRAWING



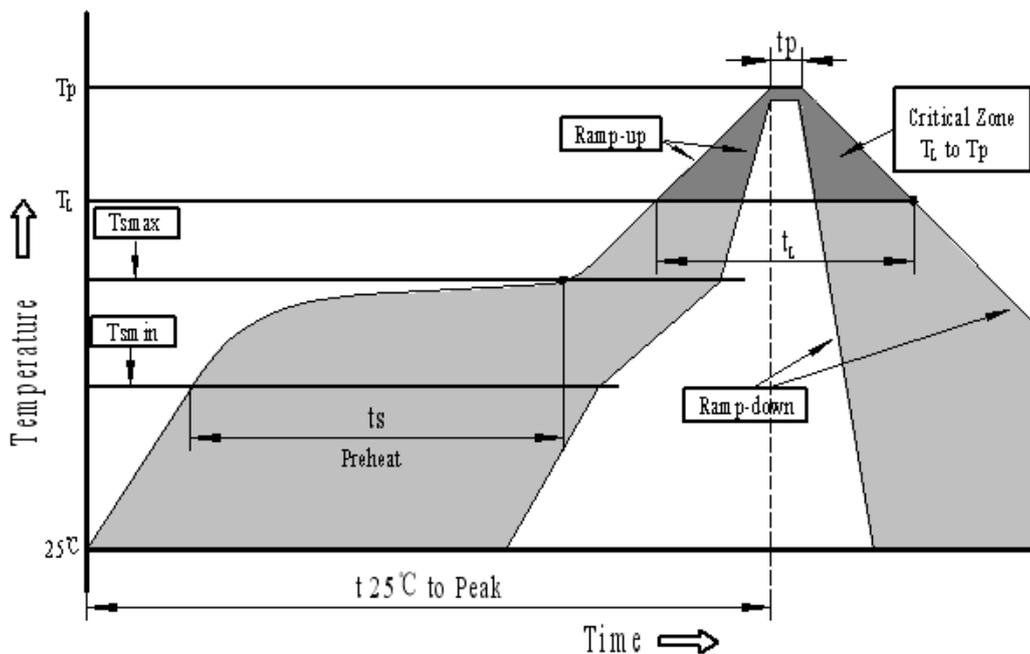
Unit:mm Tolerance :  $\pm$ 0.5mm

## D. RECOMMEND DRIVING CIRCUIT



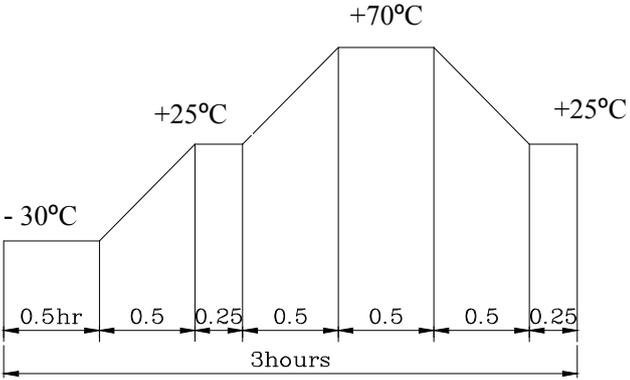
Recommended land pattern

## E. RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



Profile Feature	Pb-Free Assembly
Average ramp-up rate( $T_L$ to $T_p$ )	3°C/second max.
Preheat	
-Temperature Min.( $T_{smin}$ )	150°C
-Temperature Min.( $T_{smax}$ )	200°C
-Temperature Min.( $t_s$ )	60~180 seconds
$T_{smax}$ to $T_L$	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature( $T_L$ )	217°C
-Time( $T_L$ )	60~150 seconds
Peak temperature( $T_p$ )	245°C+0/-5°C
Time within 5°C of actual Peak temperature ( $t_p$ )	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

## F. RELIABILITY TEST

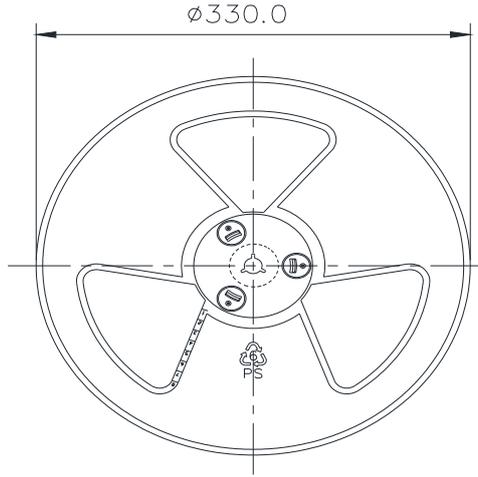
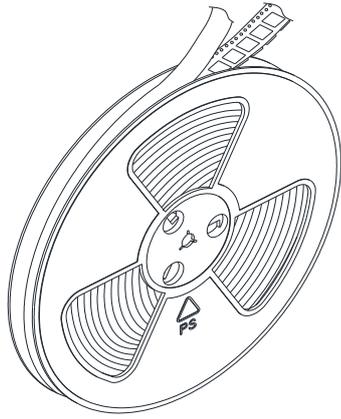
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with +85°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 ± 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>Allowable variation of SPL after test: 10dB.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: 10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +245 ± 5°C for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

### TEST CONDITION

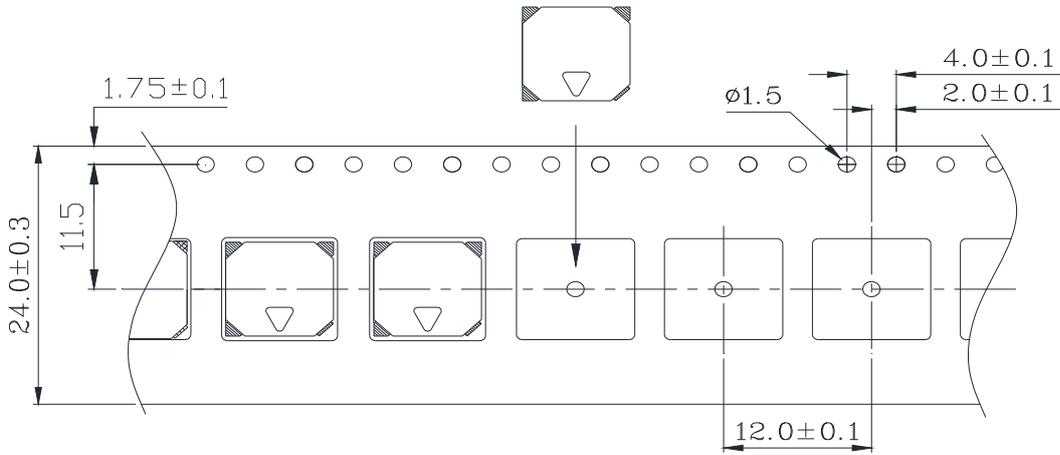
Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

**Judgment Test Condition:** a) Temperature :  $+25 \pm 2^{\circ}\text{C}$     b) Humidity : 60-70%    c) Pressure : 860-1060mbar

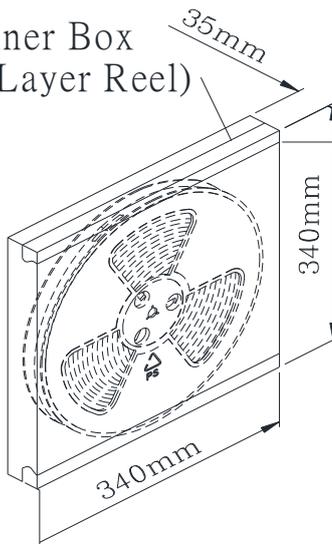
# G. PACKING STANDARD



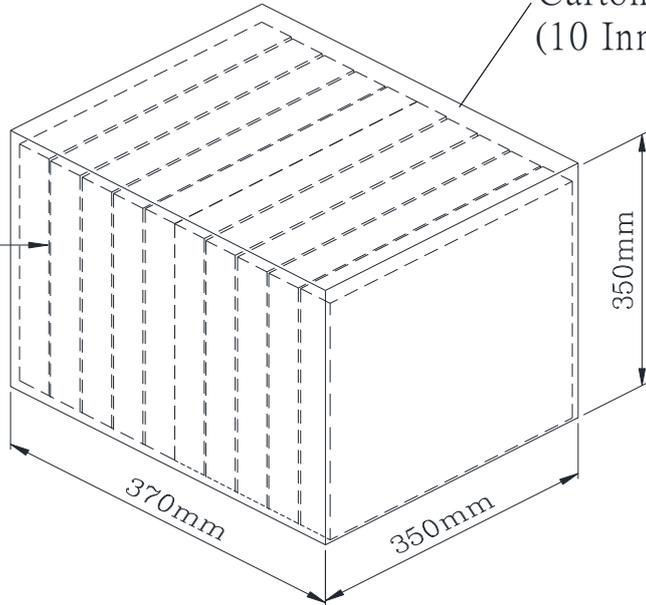
1 Reel : 1000PCS



Inner Box  
(1 Layer Reel)



Carton Box  
(10 Inner Box)



Inner Box	340mmx340mmx35mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

