

请承认书

Version No.: V2.0

常州	昊	翔	电	子	有	限	公	司
Changzho	ou Ho	αοΧία	ang	Elect	ronic	: <i>C</i>	So., L'	TD
客户名	3 称							
CUSTOME	RNAN	NER:						
产品名	名 称							
COMMODITY : SMD MAGNETIC BUZZER								
产品型	产品型号							
MODEL N	0	:		DA-M	35030	0-05	40	
客户米	斗号							
PART NO		:_						
	ı.							
审核	<u>ئ</u> ر	秦皓		主	办		唐俐雅 Ja	n.18,2019
	客	户	序	认认	栏	•		
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常州	昊	翔	电	子	有	限	公	司
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常州公司:

江苏省常州市戚区潞城镇富民路 286 号

TEL:86-519-8363089 13585451311

FAX:86-519-88353844

 $\hbox{$E$-mail: $\underline{sales@tda$-buzzer.com}$ $\underline{sales2@tda$-buzzer.com}$}$

南通工厂:

江苏如皋市郭元镇工业园辰翔工业区 TEL:86-513-87910588 871919168

FAX:86-513-87915598

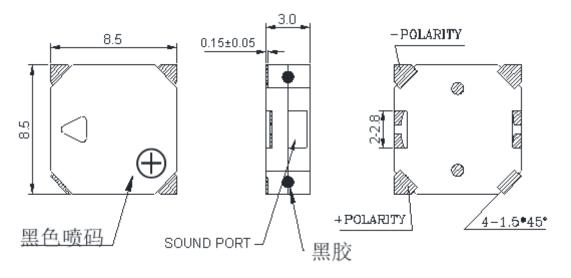
A. SCOPE

This specification applies magnetic buzzer, TDA-M85030-0540

B. SPECIFICATION

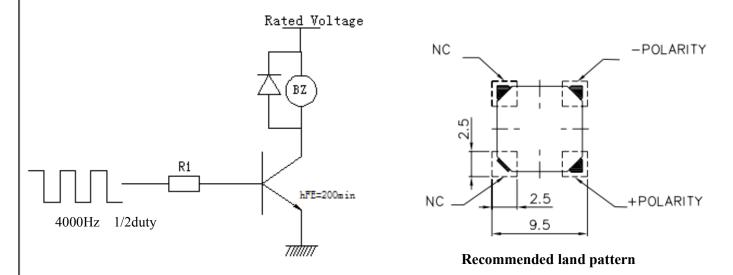
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Square Wave
2	Operating Voltage	Vo-p	4 ~ 7	
3	Rated Voltage	Vo-p	5	
4	Current Consumption	mA	MAX. 80	at 10cm ,5Vo-p,4000Hz,1/2duty
5	Sound Pressure Level	dB	MIN. 85	at 10cm ,5Vo-p,4000Hz,1/2duty
6	Coil Resistance	Ω	30±5	
7	Operating Temperature	$^{\circ}\!$	-30 ~ +70	
8	Storage Temperature	$^{\circ}$	-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

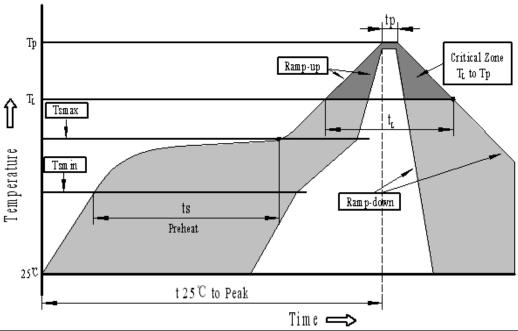


Unit:mm Tolerance: ±0.5mm

D. RECOMMEND DRIVING CIRCUIT



E.RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



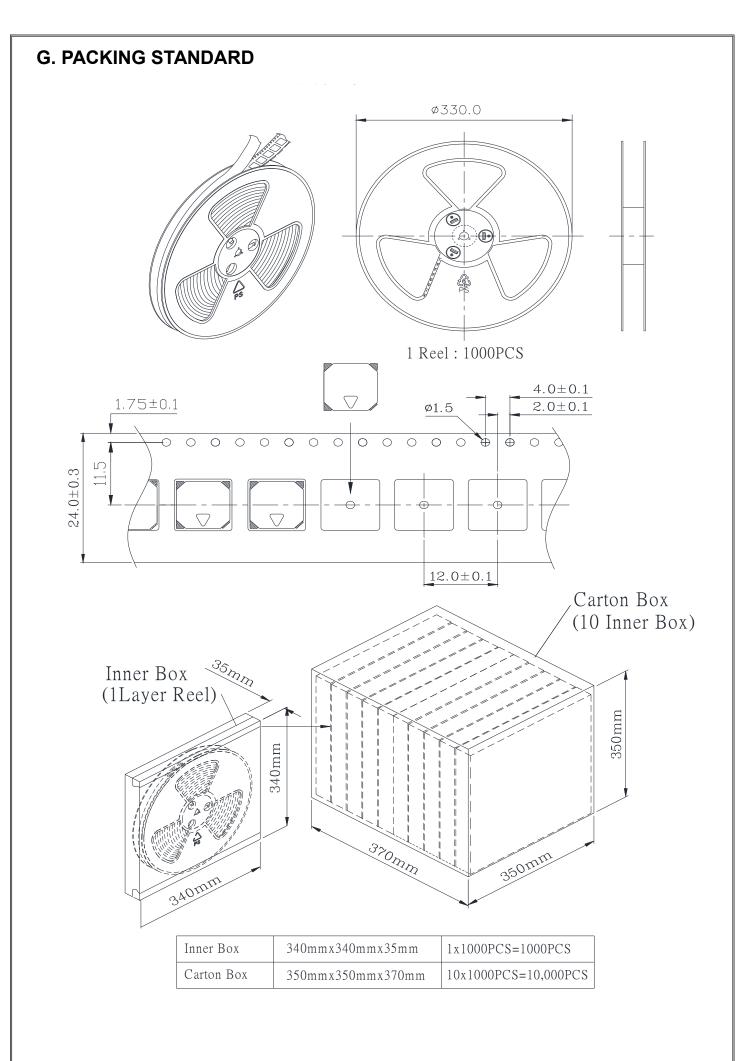
Profile Feature	Pb-Free Assembly		
Average ramp-up rate(T _L to Tp)	3°C/second max.		
Preheat			
-Temperature Min.(Ts _{min})	150℃		
-Temperature Min.(Ts _{max})	200℃		
-Temperature Min.(ts)	60∼180 seconds		
Ts _{max} to T _L			
-Ramp-up Rate	3°C/second max.		
Time maintained above:			
- Temperature(T∟)	217℃		
-Time(T _L)	60∼150 seconds		
Peak temperature(Tp)	245℃+0/-5℃		
Time within 5°C of actual Peak temperature (tp)	6 seconds max.		
Ramp-down Rate	6°C/second max.		
Time 25℃ 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	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of +85°C 30 min 60 min		
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of +85% a,b:90~98%RH c:80~98%RH 3hrs 12±0.5hrs 3hrs c		
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.		
9	Operating life test	The part shall be subjected to 96 hours at room temperature		

TEST CONDITION

Standard Test Condition : a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature : $+25\pm2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



H.NOTE CAUTIONS

- **a.** Please pay attention in welding process, don't let soldering flux invasion into the sound chamber, otherwise flux can cause defect conduction.
- **b**. Use should handle with care, avoiding direct pressure contact, or inadvertently falling down, to prevent the occurrence of fault, or the generation characteristics of abnormal movements.
 - **C**. This product is not dustproof, not waterproof, not resistance to dropping.

I.NOTICE ON PRODUCT STORAGE

a. Please store the products in room where the temperature / humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions :

Temperature: -10 to +40 (degree C)

Humidity: 15 to 85% R.H.

- b. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 6 months after delivery. If you store the products for a long time (more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty. Please confirm solder-ability and characteristics for the products regularly.
- C. Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

J.REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Jan.18,2019	Version upgrade	TDA-M85030-0540	V2.0
2				