

请承认书

Version No.: <u>V2.0</u>

常州	昊	翔	电	子	有阳	是 :	公言	司
Changzh	ou H	aoXid	ing	Elect	ronic	Co	., L	TD
客户	名 称							
CUSTOM	ER NAM	MER:						
产品	名 称							
COMMOD	OITY	•	SMC	MAGN	NETIC	BUZZ	ZER	
产品	型号							
MODEL N	10	:	T	DA-M8	35030-	-034	0	
客户	料号							
PART NO)	:_						
审核		秦皓		主	办	曹	升薪 No	ov.21,2018
	客	户	承	认	栏			
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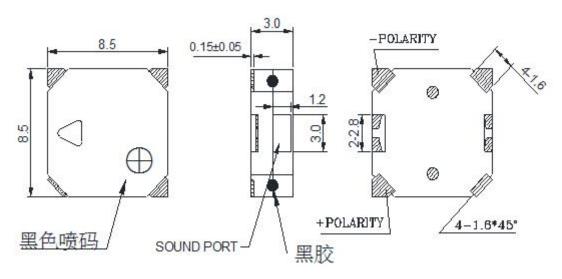
A. SCOPE

This specification applies magnetic buzzer, TDA-M85030-0340

B. SPECIFICATION

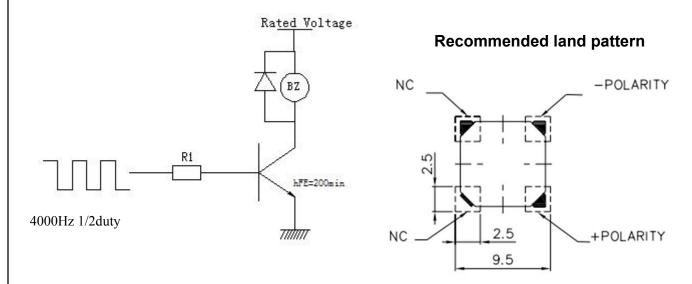
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Square Wave
2	Operating Voltage	Vdc	2.5 ~ 4.5	
3	Rated Voltage	Vdc	3.6	
4	Current Consumption	mA	MAX. 100	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Coil Resistance	Ω	16±3	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +105	
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +105	
9	Dimension	mm	8.5x8.5x 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

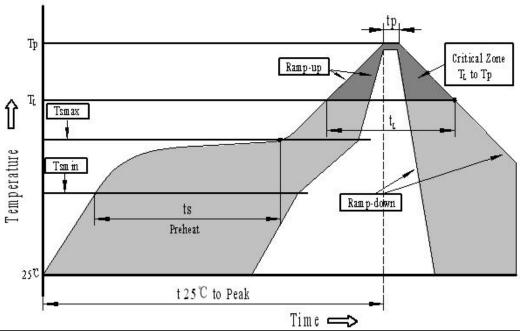


Unit:mm Tolerance: ±0.5mm

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

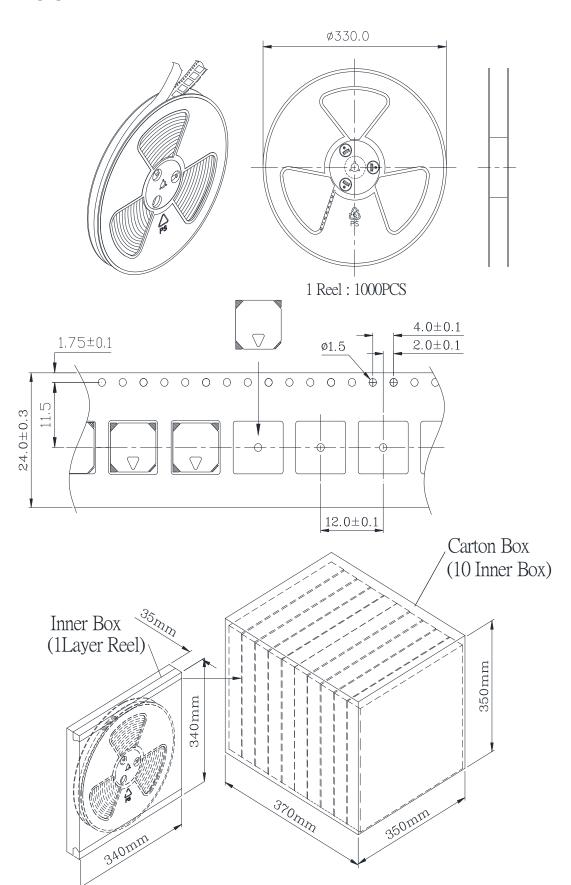
NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with 105 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40 2°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; +105°C -40°C -30 min 60 min Allowable variation of SPL after test: 10dB.		
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of; #105°C a,b:90~98%RH c:80~98%RH 3hrs 12±0.5hrs 8hrs c 24hours Allowable variation of SPL after test: 10dB.		
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 No interference in operation		

8	Soldering Heat Resistance	The product is followed the reflow temperature curve to test its reflow thermostability. No interference in operation			
9	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 : $+5 \sim +35 ^{\circ}\mathbb{C}$ b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature : $+25\pm 2 ^{\circ}\mathbb{C}$ b) Humidity : 60-70% c) Pressure : 860-1060mbar

G. PACKING STANDARD



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

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	Nov.21,2018	Initial condition	TDA-M85030-0340	V2.0