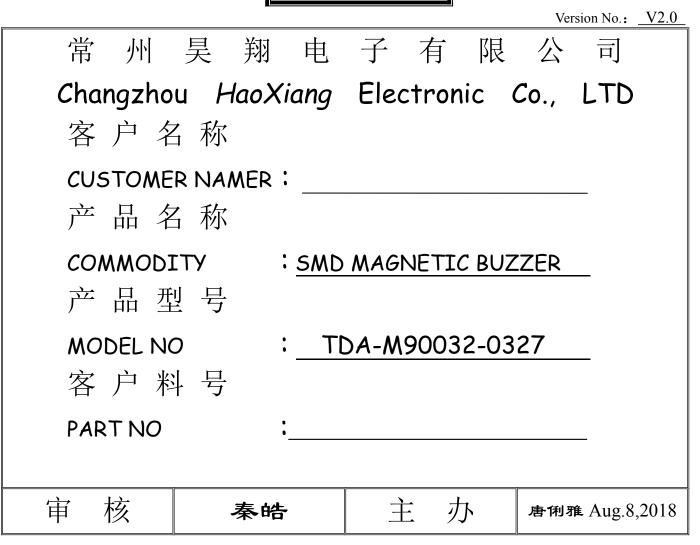


请承认书



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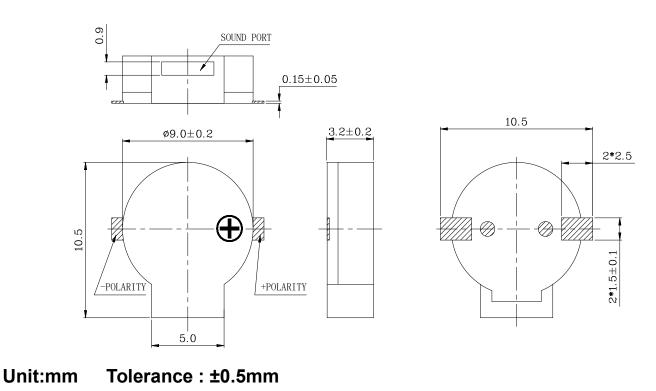
# A. SCOPE

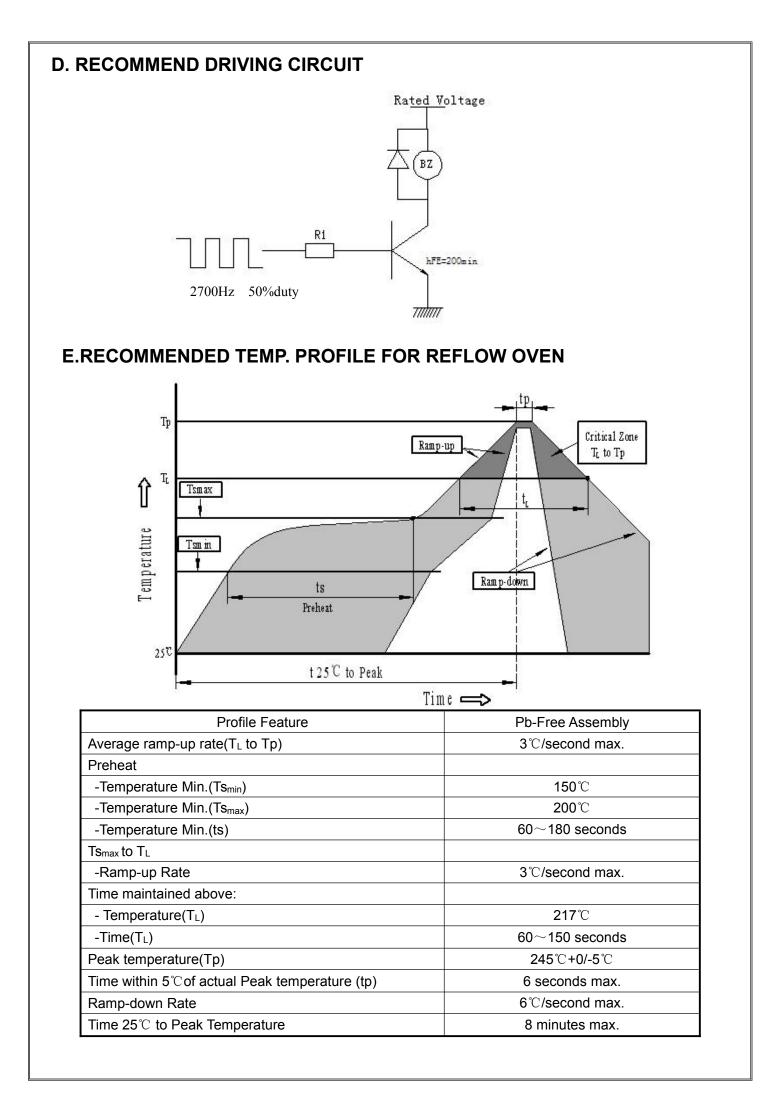
This specification applies magnetic buzzer, TDA-M90032-0327

## **B. SPECIFICATION**

No.	Item	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	2730	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. 85	at 10cm at Rated Voltage	
6	Coil Resistance	Ω	16±3		
7	Operating Temperature	°C	-30 ~ +70		
8	Storage Temperature	°C	-40 ~ +85		
9	Dimension	mm	Ф9.0x H3.2	See appearance drawing	
10	Weight (MAX)	gram	0.8		
11	Housing Material		LCP( Black )		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

## C. APPEARANCE DRAWING

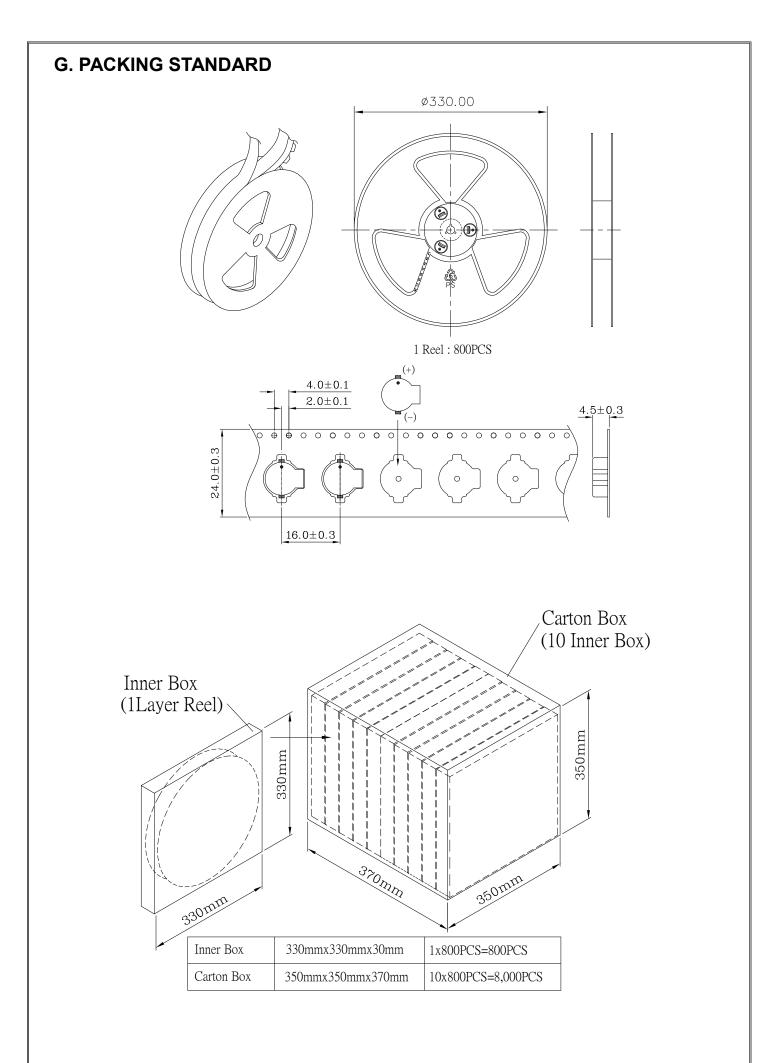




F.REI	F.RELIABILTY TEST				
NO.	ITEM	TEST CONDITION AND REQUIREMENT			
1	High Temperature Test (Storage)	After being placed in a chamber with 85±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.			
2	Low Temperature Test (Storage)	After 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	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	The part shall be subjected to 5 cycles. One cycle shall be consist of: $+70^{\circ}C$ $+25^{\circ}C$ $+25^{\circ}C$ $-30^{\circ}C$ $0.5hr$ $0.5$			
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±0.5 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°Cb) Humidity : 45-85%c) Pressure : 860-1060mbarJudgment Test Condition: a) Temperature : +25±2°Cb) 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	2014.09.11	Initial condition	TDA-M90032	V1.0
2	2014.09.15	Increased reliability test	TDA-M90032	V1.1
3.	2015.01.16	Current Consumption change from 80mA to	TDA-M90032	V1.2
		100mA;PIN length change from 2.2mm to 2.5mm		
4	Aug.8,2018	Version upgrade	TDA-M90032-0327	V2.0