



ROHS

## SPECIFICATION OF PRODUCT 承认书

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

DESCRIPTION: \_\_\_\_\_ Piezo Buzzer \_\_\_\_\_

FUSHENG P/N: \_\_\_\_\_ FSD-1407B-12V \_\_\_\_\_

CUSTOMER P/N: \_\_\_\_\_

DATE: \_\_\_\_\_ 2019-3-5 \_\_\_\_\_

CUSTOMER	APPROVER	CHECKER
	Yunqing Wu	Bing Yan

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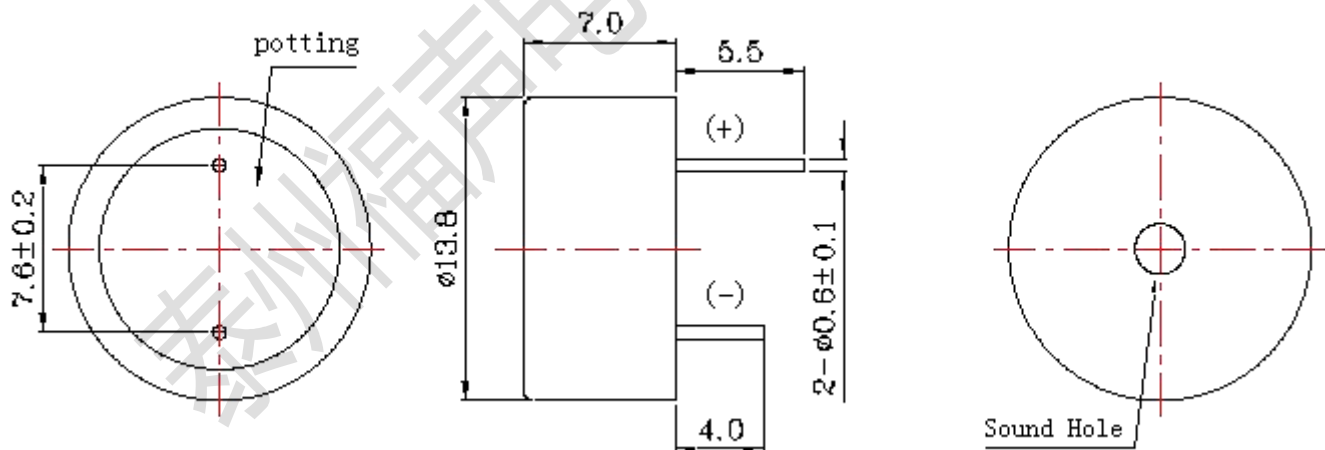
网址: [www.tzfsdz.com](http://www.tzfsdz.com)

## A. SCOPE

## B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	KHz	3.1	
2	Operating Voltage	VDC	8~16	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 30	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Tone/Pulse Rate		Constant	
7	Operating Temperature	°C	-20~+70	
8	Storage Temperature	°C	-30~+80	
9	Dimension	mm	Φ13.8 x H7	See appearance drawing
10	Weight (MAX)	gram	2.0	
11	Housing Material		PPO( Black )	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

## C. APPEARANCE DRAWING



Tol:  $\pm 0.5$  Unit: mm

D.TESTING METHOD

Standard Measurement conditions

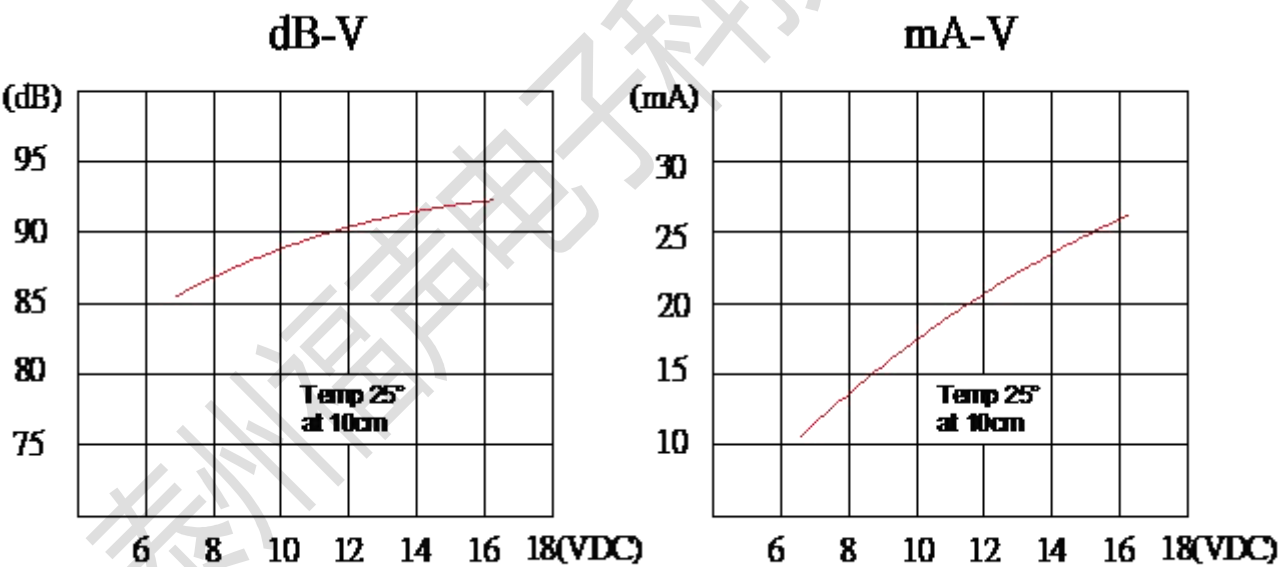
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below

In the measuring test, buzzer is placed as follows:

E. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS



## F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80 °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 -30 °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 °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: 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 1.5mm with 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 +300 °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 ± 2°C b) Humidity :

60-70% c) Pressure : 860-1060mbar