

# Data Sheet

Customer:		
Part No:	GTG-5020A	
Sample No:		
Description:	BUZZER	
Item No:		

Customer				
Check	Inspection	Approval	Date	

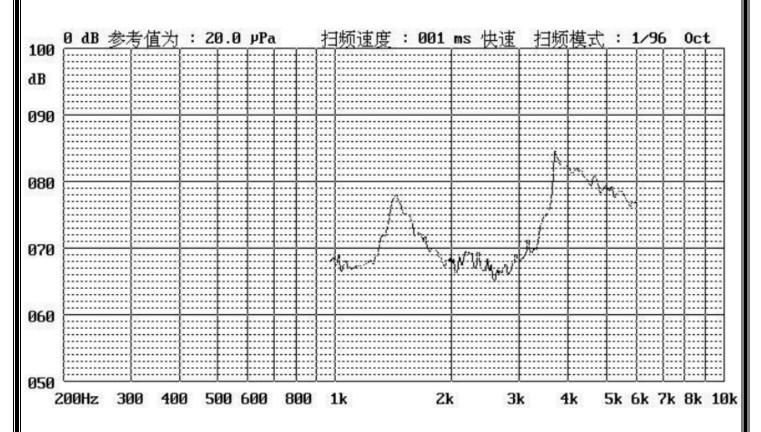


### 1. Electrical Characteristics

Oscillation Frequency (Hz)	4000	
Operating Voltage (Vp-p)	2.0 ~4.0	
Rated Voltage (Vp-p)	3.0	
Current Consumption (mA/max.)	110 at Rated Voltage	
Sound Pressure Level (dB/min.)	75 at 10cm at Rated Voltage	
Coil Resistance (Ω)	12 ±5	
Operating Temperature (°C)	-20 ~ +70	
Storage Temperature (°C)	-30 ~ +80	
Environmental protection rule	RoHS	

PS: Vp-p = 1/2duty, square wave

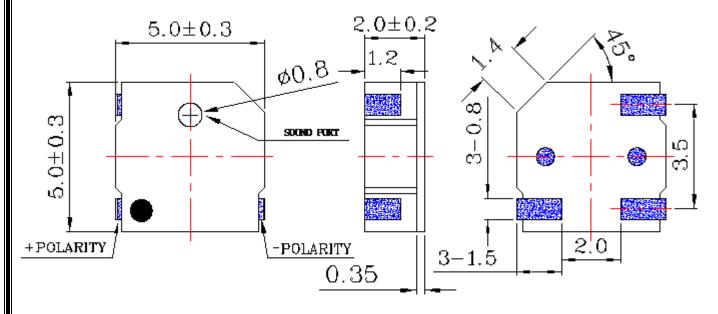
# 2. Typical Frequency Response Curve





## 3.Dimensions and Material

## 3-1 Shape

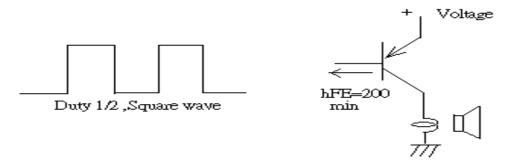


Unit: mm TOL:  $\pm 0.3$ 

## **3-2 Material**

Housing	LCP plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.5

## **4.Recommend Driving Circuit**



The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.



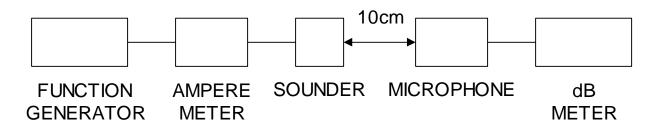
#### **5. TESTING METHOD**

#### Standard Measurement conditions

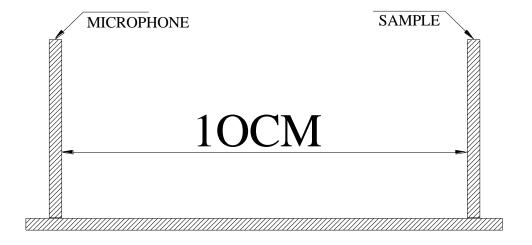
Temperature:25±2 °C Humidity:45-60%

#### · Acoustic Characteristics

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



In the measuring test, buzzers is placed as follows:





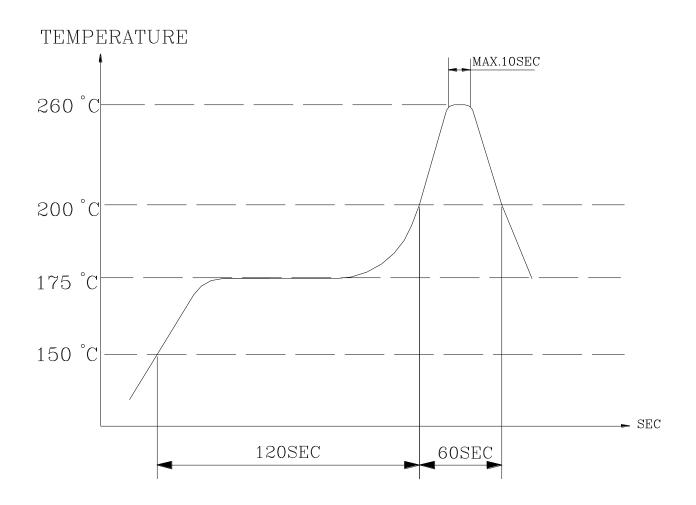
## 6. RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness withstanding	After 98 hours of being exposed to -30 $^{\circ}\!$	No abnormality shall exist
	environment, should be returned to normal	
	environment for 2 hours, then re-proceed to test.	
Hotness withstanding	After 98 hours of being exposed to +80 $^{\circ}$	No abnormality shall exist
	environment, should be returned to normal	
	environment for 2 hours, then re-proceed to test.	
Humidity withstanding	After 98 hours of being exposed to 40 $^{\circ}\!$	No abnormality shall exist
	environment in actual operation, should be	
	returned to normal environment for 2 hours, then	
	re-proceed to test.	
Durability	Testing after 1,000 hours actual continuous	No abnormality
	operation. (at standard measurement conditions)	shall exist
Drop	A natural drop from 75cm high down to the	No abnormality
withstanding	ground.	shall exist
Vibration	Vibration of 2,000 cycles per minute, 2mm	No abnormality
withstanding	amplitude, applied in X, Y and Z directions for 30	shall exist
	minutes each.	

# 7.Soldering Condition

(1) Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.

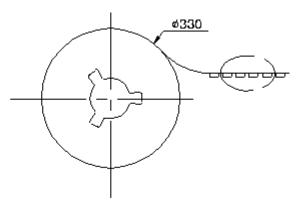


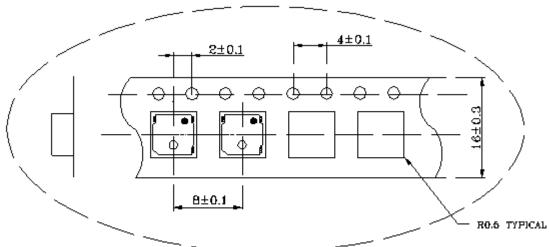
Heat resistant line (Used when heat resistant reliablity test is performed)

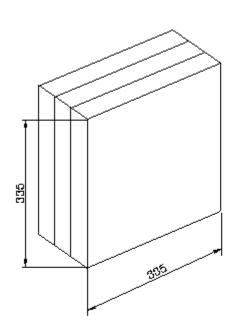


## 8. PACKAGE METHOD

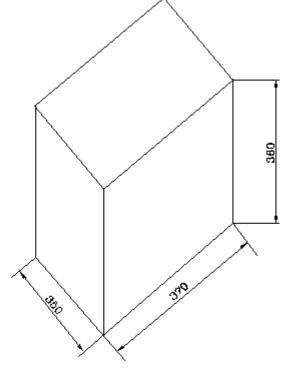
CARRIER REEL 2500 PCS BUZZER







INNER BOX 1 ROLL CARRIER REEL



CARTON BOX 10 INNER BOX 25 K PCS BUZZER

Unit:mm