

# SPECIFICATION FOR APPROVAL

<b>Product</b>	<b>PIEZO BUZZER (SELF DRIVE)</b>	
<b>Part No.</b>	<b>3350A(RoHS)</b>	
<b>Customer Approval</b>		
<b>Approved By</b>	<b>Checked By</b>	<b>Made By</b>
ERIC WANG JUN-12-2006	DAVID LIU JUN-12-2006	JOHN HSU JUN-12-2006



**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-8111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)

# 1. Specifications

3350A(RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12	
02	Operating Voltage	VDC	3~20	
03	Rated Current	mA(Max)	9	At 12VDC
04	Sound Output At 30cm	dBA(Min)	92	At 12VDC
05	Resonant Frequency	Hz	2800±500	
06	Tone Nature	CONTINUEOUS		
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	14.6	

## 2. Measuring Method

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

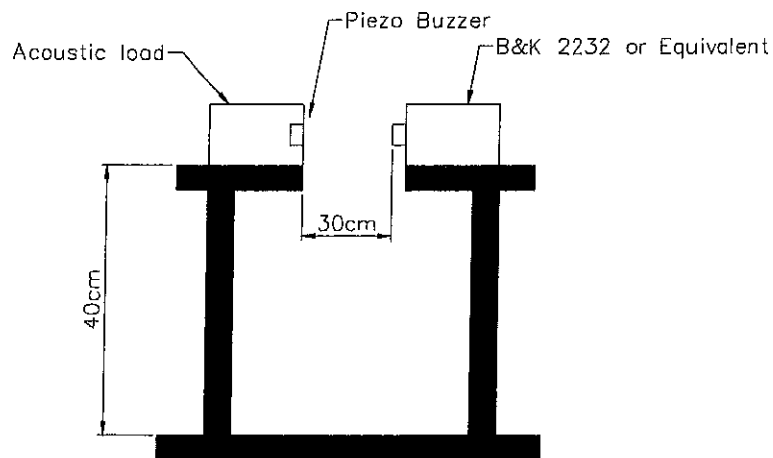
Atmospheric pressure : 860mbar to 1060mbar



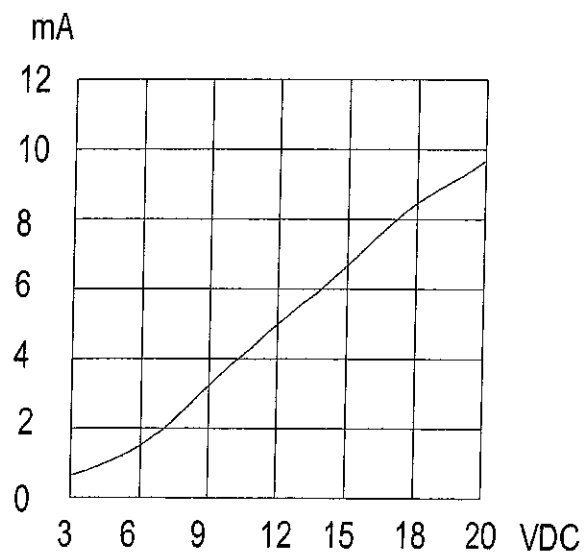
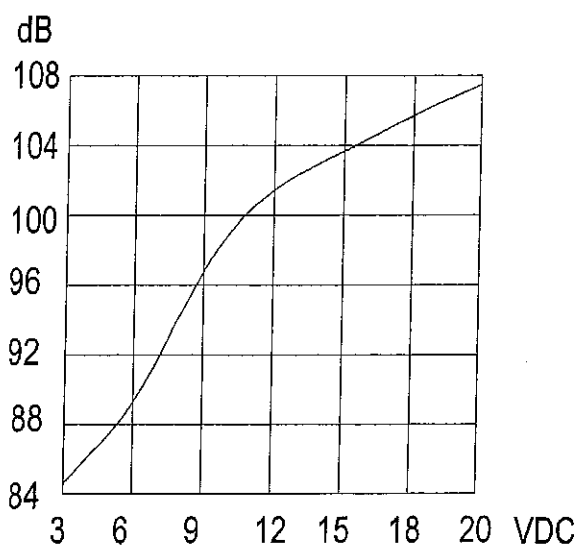
**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)

## 2-2. Standard Test Fixture

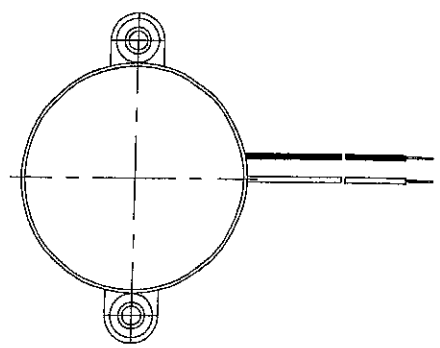
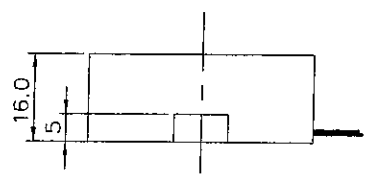
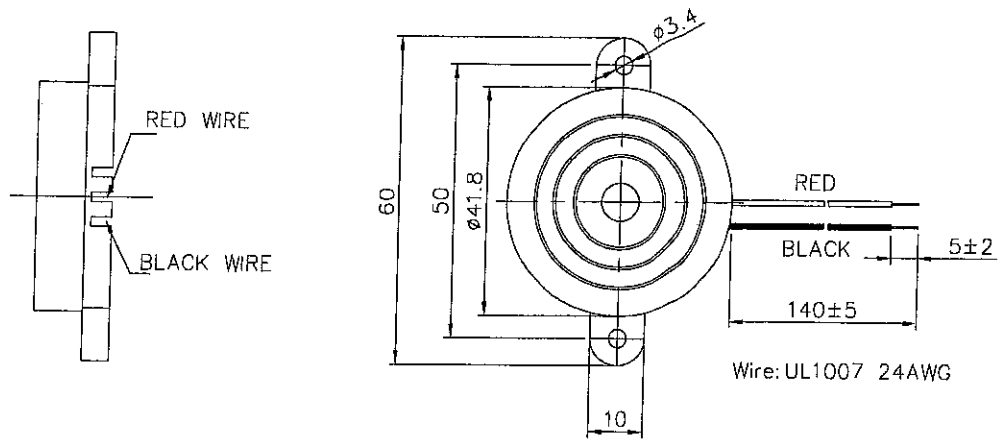
3350A(RoHS)



## 2-3. Characteristic Curve



**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)



TITLE: PIEZO BUZZER		DRAWN: <i>Killy</i> 2005/02/28	SCALE: 1:1	SHEET: 1 : 1
PART NO. 3350A(RoHS)	1	DESIGNED: R & D	UNITS: mm	
		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: ABS777	ONE PLACE DECIMAL ± ***	
	REV		TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	



**SHOGYO INTERNATIONAL CORP.**  
 6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
 TEL: (516) 921-9111 • FAX: (516) 921-3777  
 www.shogyo.com

## 4. Reliability Test

3350A(RoHS)

	Item	Conditions	Evaluation standard
01	Low Temp. Storage Test	-40°C±2°C ,240Hr	After the test the part shall meet specifications without Any degradation and performance except S.P.L S.P.L shall be 84dB or more.
02	High Temp.Storage Test	85°C±2°C ,240Hr	
03	Temp./Humidity Storage Test	40°C±2°C , RH90-95% 240Hr	
04	Thermal Shock Test	-40°C±2°C (0.5Hr)→ ,20°C±2°C (0.25Hr) 85°C±2°C (0.5Hr)→ ,20°C±2°C (0.5Hr) 5 cycles	
05	Vibration Test	10-55Hz/2 Hr amplitude1.5mm X,Y, Z,3 directions	
06	Mechanical Shock Test	+100G,Half Sine wave, XYZ , 3 impacts per axis ,3 times.	
07	Free Drop Test	The part shall be dropped freely from a height of 75 cm X,Y, Z,3 directions 3times (total 9 times )	
08	Life Burning Test	The part shall be subjected to 500 hrs in the room temp with rated voltage applied	
09	Lead Strength Test	Pull Lead with a force of 10N,on the direction of the lead axis for 10±1 sec.	



**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)