

DATE	16-Jun-08	<b>SPECIFICATION</b>	BOSAN HI-TECH CO., LTD.
MODEL NO	BST-0833A		BEST QUALITY, SPECIALIZED SERVICE
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**BOSAN HITECH CO., LTD**

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# Specification Sheet

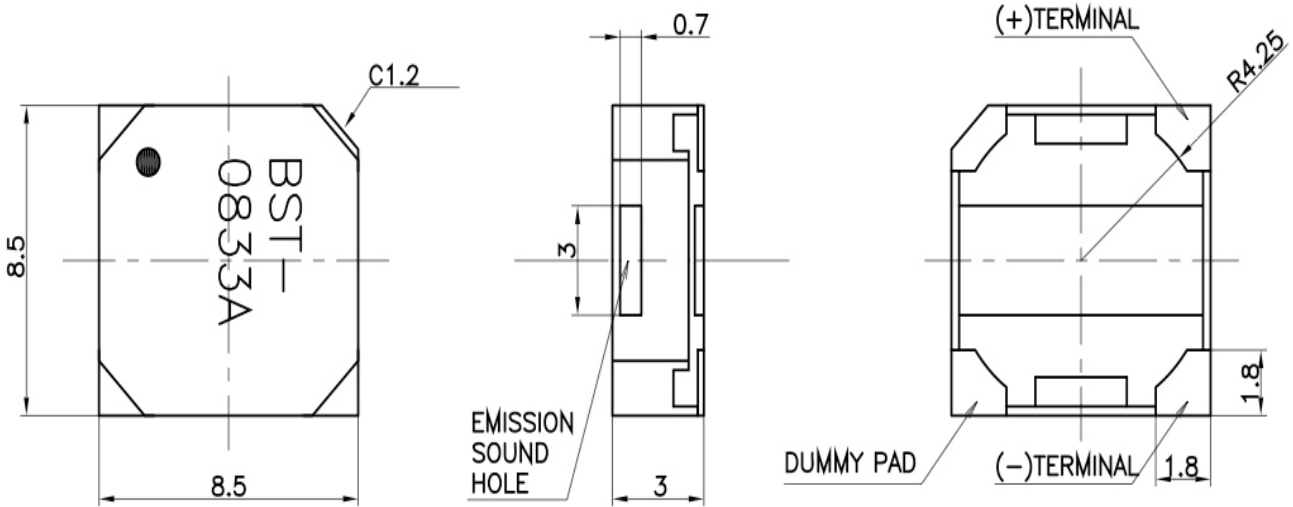
(MODEL : BST-0833A)

<Non Washable Type>

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**1. DIMENSION**



Unit : mm  
Tolerance : +/- 0.2 mm  
Housing material : PA#46

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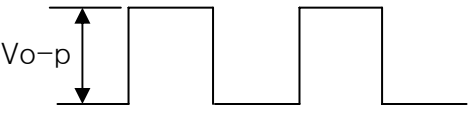
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**2. SCOPE**

THIS SPECIFICATION IS APPLIED TO THE DYNAMIC MAGNET TRANSDUCER ASSEMBLY WHICH IS USED AS ALERT IN A CELLULAR PORTABLE PRODUCTS.

**3. ELECTRICAL SPECIFICATIONS**

ALL DATA AT 25 degree C, HUMIDITY 40% ~ 80% UNLESS OTHERWISE SPECIFIED.

ITEMS	SPECIFICATIONS	CONDITIONS
RATED VOLTAGE	3.6 Vo-p	
OPERATING VOLTAGE	2.5V ~ 4.5Vo-p	
RATED CURRENT	MAX 100mA	
COIL RESISTANCE	16ohm +/- 3	
SOUND PRESSURE LEVEL (AT 10cm)	min 85 dBA	* f=2,700Hz, Vo-p=3.6 V *1/2 DUTY SQUARE WAVE
RATED FREQUENCY	2,700Hz	
OPERATING TEMP.	-30°C ~ +70°C	
STORAGE TEMP.	-40°C ~ +85°C	

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**4. RELIABILITY**

<p><b>TEMPERATURE CHARACTERISTICS</b></p> <p>#. All data taken at -30 °C and +85 °C will be referenced to initial data taken at +25 °C.  #. Component must be fully stabilized at temperature extremes before data taken, which may require up to a 4 hour soak.</p>
<p><b>STATIC HUMIDITY</b></p> <p>#. Precondition at 25 °C for 60 minutes. After 72 hours at 40 °C with 90% to 95% relative humidity, allow to dry at room ambient for 4 hours.</p>
<p><b>VIBRATION (RANDOM)</b></p> <p>#. To vibrate randomly at 6 g's or 0.04 g /Hz power spectral density from 10 to 2000 Hz for 15 minutes per plane or  #. Sinusoidal vibration 10 to 60 Hz, 0.06" double amplitude or 15 g's whichever is less for 1/2 hour per plane X,Y,Z.</p>
<p><b>OPERATING LIFE</b></p> <p>#. To subject samples to 85 °C at 85% RH for 168Hr at full rated power.</p>
<p><b>COMPONENT SHEAR TEST</b></p> <p>#. To subject sample on PC Board to a tensile pull strength of 1Kg force for 30 seconds.</p>
<p><b>DROP TEST</b></p> <p>#. While assembled in a dummy case, 5 free falls onto a concrete floor from a height of 150cm.</p>

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DATE	16-Jun-08	<b>SPECIFICATION FOR APPROVAL</b>	BOSAN HI-TECH CO., LTD.
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5. Environmental Information

# This product meets ROHS standard and information of every parts below can be subjected.  
 -. ICP-AES analysis data  
 -. MSDS data

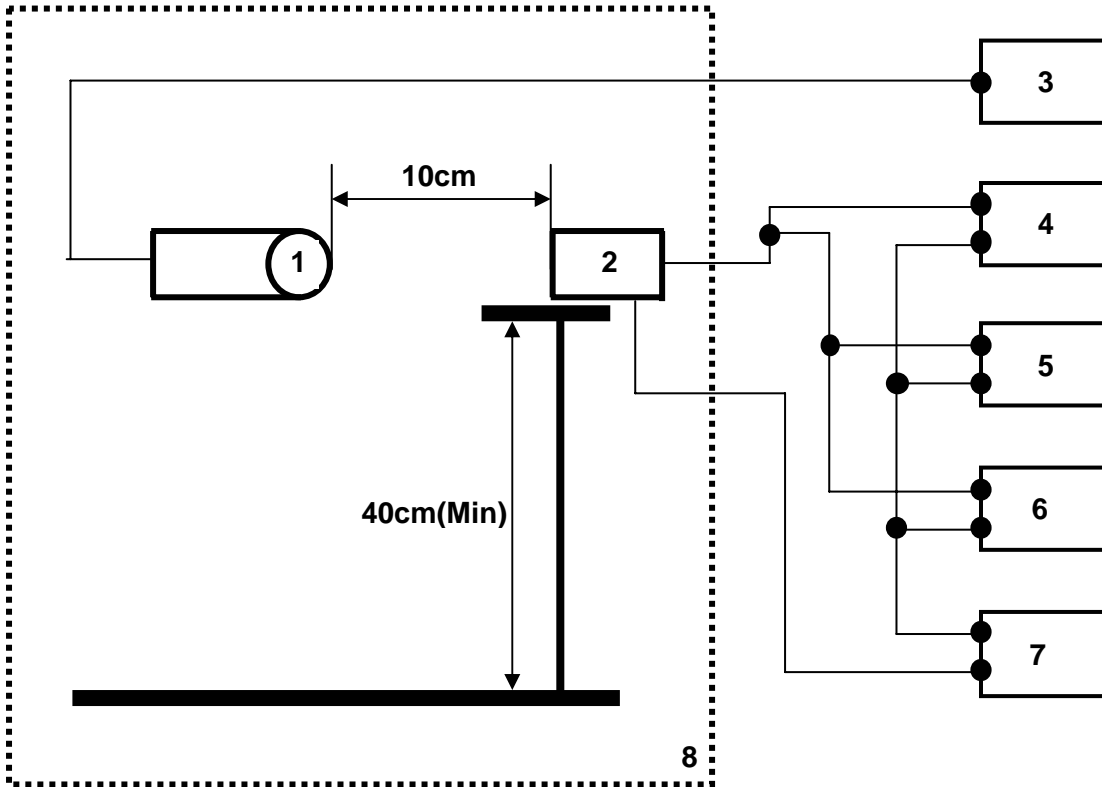
Type	Substances / Material	ppm (amount)
Class I	Cadmium and compounds	Not detected
	Lead and compounds	206
	Mercury and compounds	Not detected
	Chrom(VI) and compounds	Not detected
	Polybrominated biphenyls (PBBs)	Not detected
	Polybrominated diphenylethers(PBDEs)	Not detected
Class II	Polychlorinated biphenyls (PCBs)	Not detected
	Polychlorinated Terphenyls (PCTs)	Not detected
	Polychlorinated naphthalences (PCNs)	Not detected
	Ozone depleting substances(CFCs, HCFCs, Halons)	Not detected
	Asbestos and compounds	Not detected
	Formaldehydes	Not detected
	Short-chain chlorinated paraffins (Alkane 10 ~ 13 Carbon chain)	Not detected
	Azo colorants	Not detected
	Nickel and compounds	Not detected
	Organic tin compounds	Not detected
	Arsenic and compounds	Not detected
	Class III	Phthalates
PVC		Not detected
Beryllium and compounds		Not detected
Other Chlorinated flame retardants		Not detected
Other Chlorinated flame retardants (TBBP-A)		Not detected

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**6. ELECTRICAL CHARACTERISTICS MEASUREMENT**

1) SETTING UP OF MEASURING SYSTEM

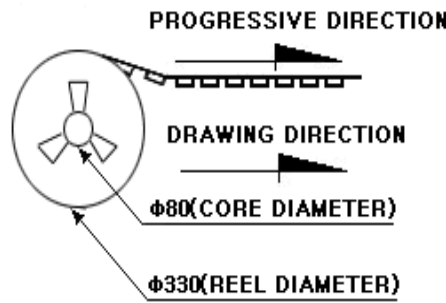
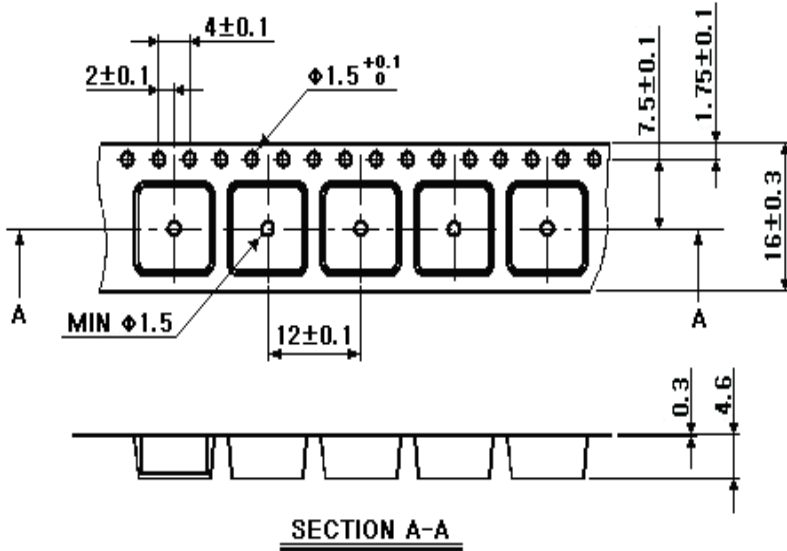


NO	EQUIPMENT	REMARKS
1	CONDENSER MIC.	
2	DEVICE UNDER TEST	MAGNETIC BUZZER
3	F.F.T, OR S.P.L INDICATOR	
4	OSCILLATOR	
5	FREQUENCY COUNTER	
6	VOLTAGE METER	
7	AMPERE METER	
8	SOUND PROOF ROOM	

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**7. PACKING FORMAT**



**REMARK**

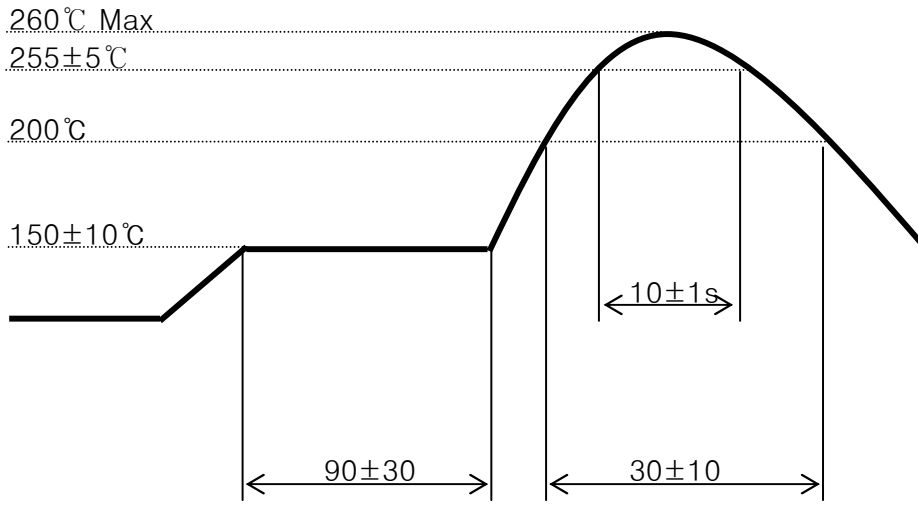
1. Each corner without specification is max R0.25.
2. Emboss carrier tape is as per JIS C0806 standard.
3. Diameter of reel is  $\phi 330$ mm and core is  $\phi 80$ mm.
4. Quantity packed in a reel : 1,000pcs

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**8. SOLDERING CONDITION**

**1) REFLOW CONDITION PROFILE**



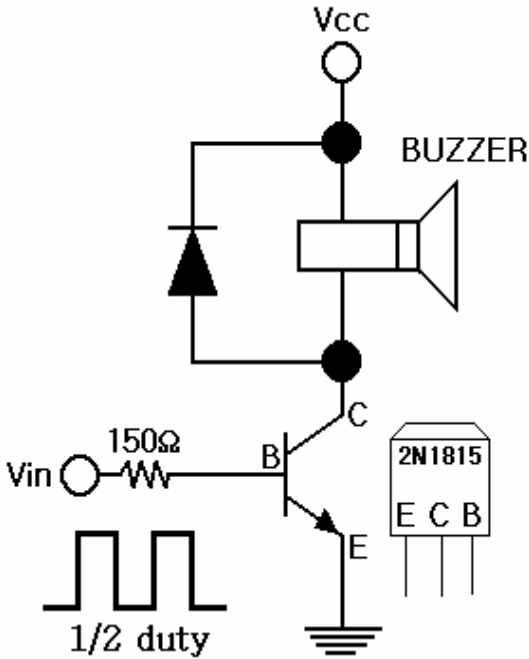
**2) MANUAL SOLDERING**

THE TEMPERATURE OF SOLDERING IRON : 250°C WITHIN 3 SECONDS.

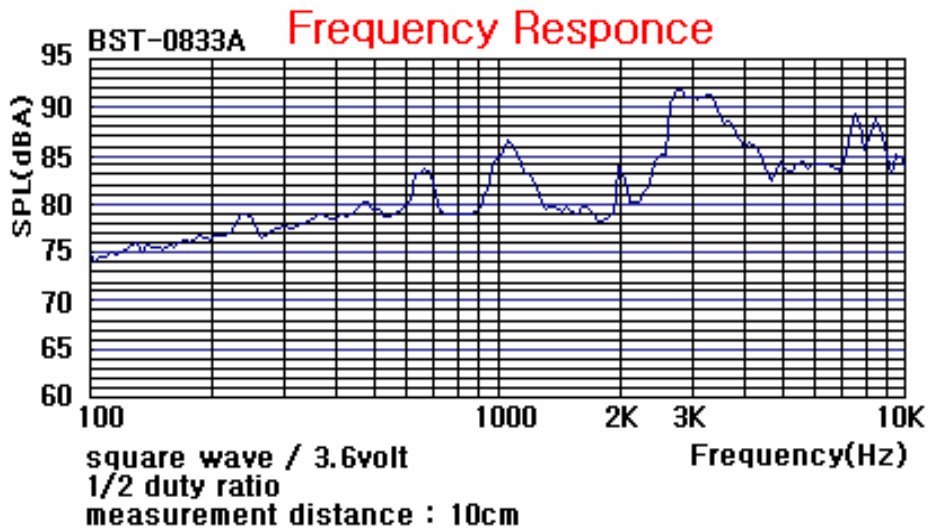
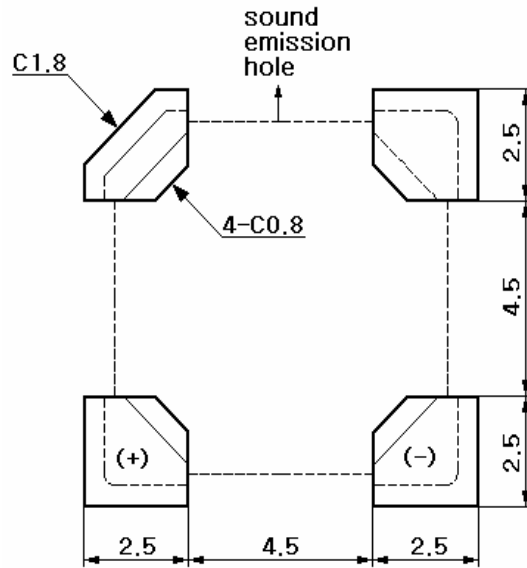
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<Standard Drive Circuit>



<Recommended foot print layout>



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