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Soberton, Inc. ST-025BT

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



SPECIFICATION FOR APPROVAL

Customer :

Description: Magnetic Transducer

Soberton Part No. : ST-025BT

Date : 2008-12-18

Customer Model No. :

Date of Approval	
Authorization	
Signature	

211 N. First Street Minneapolis, MN. 55401 612-849-6205

Http://www.soberton.com E-mail : info@soberton.com

Approved	Checked	Design	
Ryan	Wang Wei Rong	Xu Hong Wei 2008/12/18	
2008/12/18	2008/12/18		



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A:SCOPE

This specification applies magnetic buzzer, ST-025BT

B:SPECIFICATION

■ Test condition: TEMP=+25 \pm 2 °C Related humidity=45~60 \pm 5% Air pressure:860-1060mbar

	Test condition: $TEMP=+25\pm2$ °C Related humidity=45~60±5% Air pressure:860-1060mbar				
NO.	Item	Unit	Specification	Condition	
1	Rated Voltage	Vo-p	3.6	Vo-p	
2	Operating Voltage	Vo-p	2.5 - 4.5		
3	Mean Current	mA	Max. 100	Applying rated voltage & rated frequency, square wave 1/2 duty	
4	Coil Resistance	Ω	16 ± 3		
5	Sound Output	dBA	85/10cm	Distance at 10cm(A-weight free air), Applying rated voltage & rated frequency, square wave,1/2duty	
6	Rated Frequency	Hz	3100		
7	Operating Temp	°C	-30-+85		
8	Storage Temp	°C	-40-+85		
9	Dimension	mm	7.5 × 7.5 × 2.5	See attached drawing.	
10	Weight	gram	0.8		
11	Material		LCP (Black)		
12	Terminal		SMD type	See attached drawing	
13	Environmental Protection Regulation		RoHS		
14	Storage life	month	3	3 months preservation at room temp(25±3°C), Humidity40%	



C:ENVIRONMENT TEST

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No.	Item	Test condition	Evaluation standard	
1	High temp. test	After being placed in a chamber at $+85^{\circ}$ C for 96 hours.		
2	Low temp. test	After being placed in a chamber at -30° C for 96 hours.		
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of; $-+20^{\circ}C$ $-+20^{\circ}C$ $-+20^{\circ}C$ $-+20^{\circ}C$ $$	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at $+25^{\circ}$ C, The SPL shall be in ± 10 dBA compared with initial	
4	Temp. / Humidity Cycle	The part shall be subjected to 10 cycle and consist of; +70°C +25°C a b 3hrs 12±0.5hrs c 24hrs	one.	

D: RELIABILITY TEST

No.	Item	Test condition	Evaluation standard	
1	Operating life test	 Applying rated voltage, rated frequency, square wave , 1/2 duty cycle : Ordinary temperature The part shall be subjected to 96 hours at room temperature. 	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at $+25^{\circ}$ C, The SPL shall be in \pm 10 dBA compared with initial one.	
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				



E:MECHANICAL CHARACTERISTICS

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No	Item	Test condition	Evaluation standard
1	Solderability	Lead terminal are immersed in rosin for 5 seconds and then immersed in Solder bath of $+260\pm5^{\circ}$ C for 3 ± 0.5 second	90% min. lead terminals shall be
2	Soldering Heat Resistance	Lead terminal are immersed in soldering bath of $+260\pm5^{\circ}$ C for 3 ± 0.5 Second.	wet with solder
3	Iron Soldering Heat Resistance	Lead terminal are soldering of +350±5°C, 2.5±0.5 Second.	No interference in operation
4	Terminal Mechanical Strength	Apply the terminal with 9.8N(1kg) strength for 10±1 sec.	No damage and cutting off
5	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3G). The vibration test shall consist of 2 hours per axis in each three axes(X,Y,Z), Total 6 hours.	After the test the part shall meet specifications without any damage in appearance and performance except
6	Drop test	The part only shall be dropped from a height of 75cm onto a wooden board 1 times.	SPL. The SPL shall be in ± 10 dBA compared with initial one.









