

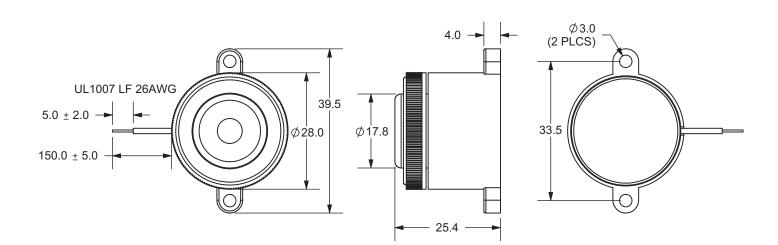
DESCRIPTION: piezo audio indicators

SPECIFICATONS

25,051/17	
4 ~ 28 V DC	
6 mA max.	at 12 V DC
87 db min.	at 30 cm/12 V DC
12 V DC	
slow pulse (1.2Hz±20%)	
-30 ~ +85°C	
-40 ~ +95°C	
Ø28.0 x H25.4 mm	
10.2 g max.	
ABS UL-94 1/16" high heat	t (black)
wire type	
yes	
	87 db min. 12 V DC slow pulse (1.2Hz±20%) -30 ~ +85°C -40 ~ +95°C Ø28.0 x H25.4 mm 10.2 g max. ABS UL-94 1/16" high heat wire type

APPEARANCE DRAWING

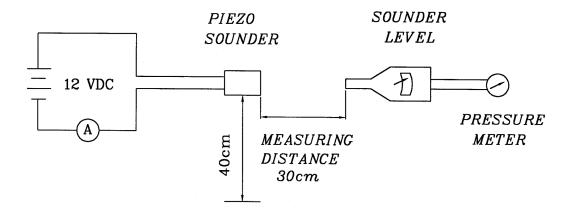
tolerance: ±0.5 units: mm





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MEASUREMENT METHOD

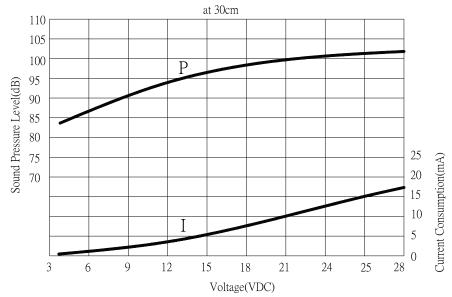


S.P.L. Measuring Circuit

Mic: RION S.P.L. meter UC30 or equivalent

S.G.: Hewlett Packard 33120A function gernerator or equivalent

CURRENT CONSUMPTION/SOUND PRESSURE LEVEL





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MECHANICAL CHARACTERISTICS

item	test condition		evaluation standard
solderability ¹	Stripped wires are immersed in rosin for		90% min. of the lead terminals
	5 seconds and then immersed in solder bath		will be wet with solder
of 270 ±5°C fc		£1 seconds.	(except the edge of the terminal).
lead wire pull strength	The pull force shal	I be applied to lead wire:	
	Horizontal	3.0N for 30 seconds	No damage or cutting off.
	Vertical	2.0N for 30 seconds	
vibration	The buzzer shall b	e measured after applying	The value of oscillation
	a vibration amplitude of 1.5 mm with 10 to		frequency/current consumption
	55 Hz band of vibration frequency to each of		should be ±10% of the initial
	the 3 perpendicular directions for 2 hours.		measurements. The SPL should
drop test	The part will be dropped from a height of		be within ±10dB compared with
	75 cm onto a 40 mm thick wooden board 3		the initial measurement.
	times in 3 axes (X,	Y, Z) for a total of 9 drops.	

Notes: 1. Not recommended for wave soldering

ENVIRONMENT TEST

test condition	evaluation standard
After being placed in a chamber at +95°C for	
240 hours.	
After being placed in a chamber at -40°C for	
240 hours.	
After being placed in a chamber at +40°C and	
90±5% relative humidity for 240 hours.	
The part shall be subjected to 5 cycles. One cycle will consist of:	The buzzer will be measured after being placed at +25°C for 4 hours. The value of the oscillation frequency/current
+25℃ -40℃	consumption should be ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements.
0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25	
3hours	
	After being placed in a chamber at +95°C for 240 hours. After being placed in a chamber at -40°C for 240 hours. After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours. The part shall be subjected to 5 cycles. One cycle will consist of:



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RELIABILITY TEST

item	test condition	evaluation standard
operating (life test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25℃ for 4
	continuous operation at +70°C with rated voltage applied.	hours. The value of the oscillation frequency/current
	2. Intermittent life test: A duty cycle of 1 minute on, 1 minutes off, a	consumption should be ±10%
		compared to the initial
		measurements. The SPL should
	minimum of 5,000 times at room temp	be within ±10dB compared to
	$(+25 \pm 2^{\circ})$ with rated voltage applied.	the initial measurements.

TEST CONDITIONS

standard test conditiona) tempurature: $+5 \sim +35$ °Cb) humidity: 45 - 85%c) pressure: 860-1060 mbarjudgement test conditiona) tempurature: $+25 \pm 2$ °Cb) humidity: 60 - 70%c) pressure: 860-1060 mbar



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