MALLORY **Mallory Sonalert Products,Inc.**	Part #:	**MSO206NR**
Sales Outline Drawing	Revision:	**D**

Specifications:

Sound Level Category	Loud
Mode of Operation	Continuous
Voltage Rating	2 to 6 VDC
Frequency	3500 ± 500 Hz
Loudness @ 1 FT	90 to 99 dB(A) Typ.
Current Draw	30mA MAX
Housing Material	Valox (UL94V-0), Color: Black
Storage Temperature	-30° to +70° C
Operating Temperature	-20° to +65° C
Weight (Typical)	3.5g
Options	Please contact factory.

Dimensions: Inches (mm)   **ROHS Compliant**

EMISSION HOLE
Ø .187±.005 [3,0±0,1]

.906±.005 [23±0,1]

.590±.012 [15±0,3]

.031±.002 [0,8±.04]
(2 Pins)

.197 [5]
.165 [4]

.020±.005 [,5±0.1]
.509±.005 [12,9±0.1]
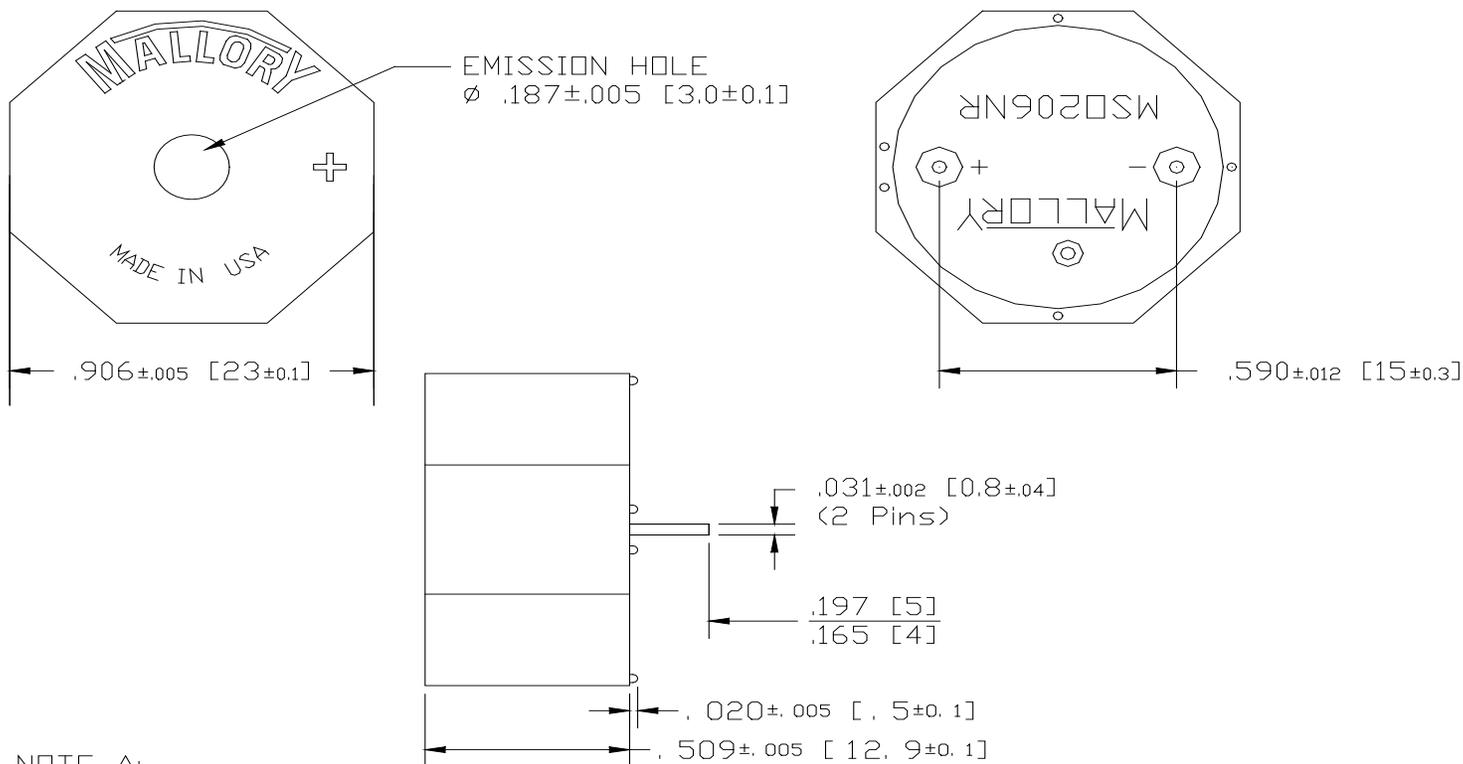
NOTE A:
TERMINALS – .031″ DIA. NICKEL/TIN COATED BRASS.

NOTE B:
MOUNTING– INSERT INTO PRINTED CIRCUIT BOARD AND HAND OR MACHINE SOLDER.
UNITS ARE SUITABLE FOR WAVE SOLDERING. RECOMMENDED MAXIMUM TEMPERATURE
AND TIME DURATION FOR WAVE SOLDERING IS +270°C AND 3 SECONDS RESPECTIVELY.

Aqueous Wash:

In order to process MSR & MSO Series buzzers through an aqueous wash, the buzzer must have a wash label and be sealed on the back with epoxy. Sealed buzzers have a "SR" suffix in the part number. For example, P/N MSR320SR is sealed and appropriate for aqueous wash. P/N MSR320R is not sealed.

After aqueous wash, the wash label must be removed from the buzzer.

Wave Solder Profile:

Refer to the wave solder machine manufacturer's recommended wave solder profile. If needed, adjust the maximum time & temperature to 270°C for 3 seconds to process MSR & MSO series buzzers.

Moisture Sensitivity Level (MSL): Level 1 (Unlimited)

Packaging: All parts are bulk packed.

Origin: Made in USA

Sound Level vs Distance:

Sound level decreases as the sound waves travel over distance, so it is important to note the specified distance when comparing sound levels. For example, if a buzzer measures 88 decibels (dB) at 30 cm, then it will measure:

97 dB @ 10 cm
82 dB @ 60 cm
78 dB @ 1 Meter

Mallory Sonalert has developed a tool to help convert sound levels depending on the distance. You can download the tool from our website: http://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%20Tool.xls