

Models MSR320 & MSO320 Sonalert II™ Audible Signal Devices



- Made in USA
- Low Power Consumption
- Low Cost
- Low Profile and Compact
- Piezo Tone Quality
- Wave Solderable

GENERAL SPECIFICATION

Resonant Frequency:
3.40 ±.4 kHz (MSR)
3.15 ±.4 kHz (MSO)

Min. Sound Pressure @ 12VDC
75 db(A) @ 2ft.

Rated Voltage:
3-20 VDC to +65°C

Max. Current:
3-16 mA @ 3-20 VDC

Operating Temperature:
-20°C to +65°C

Storage Temperature:
-30°C to +80°C

Solder Temperature:
+270°C for 3 seconds

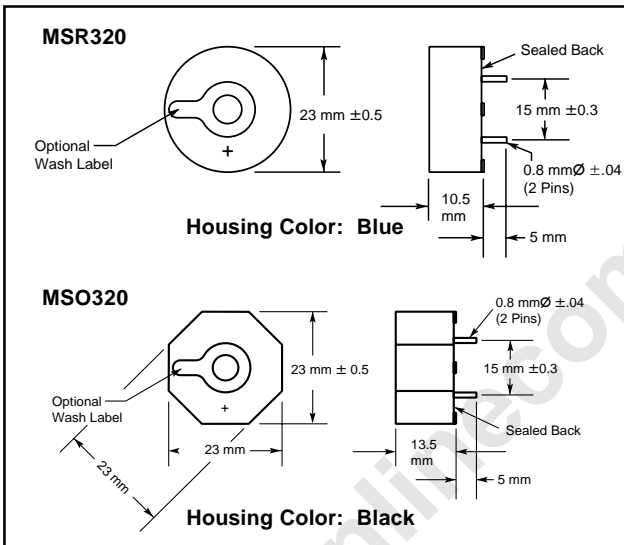
Case Material
VALOX (UL94V-0)

Weight (Typical):
3.5 grams

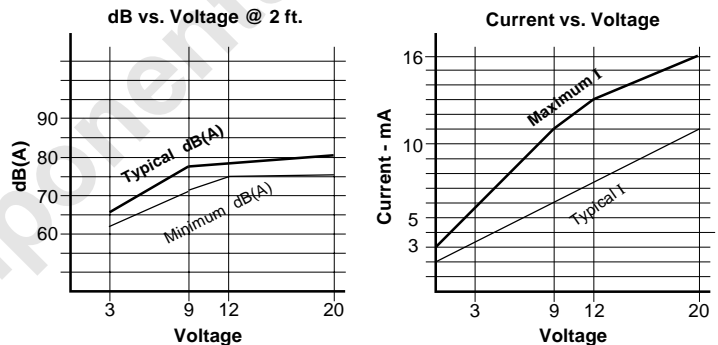
APPLICATIONS

Fire Alarm,
Crime Prevention Alarm,
Call Buzzer,
Automotive,
Clocks,
Cash Registers & P.O.S.
Equipment,
Medical Instruments,
Electrical Instruments

Shape and Dimensions (mm)



Characteristics



Typical Reference Conditions for Various Applications

Sound Pressure @ 12VDC

90 db(A) @ 10 cm
81 db(A) @ 30 cm
75 db(A) @ 2 ft. (Spec)
72 db(A) @ 100 cm

The MSR320 and MSO320 are piezoelectric audible signal devices with a built-in oscillator circuit. They are suitable replacements for the MCP320B2 and MCP320.

The MSR320 and MSO320 are suitable for wave soldering when ordered with the sound emission hole covered with a wash label. The recommended maximum temperature and exposure time for wave soldering is +270° C and 3 seconds respectively.

Optional wash label may be ordered by adding 'S' to model number.

Example: MSR320S
MSO320S

Parts similar to MSR320 & MSO320 have passed ESD (ElectroStatic Discharge) testing to levels 1, 2 & 3 per MIL-STD-883D.

Because the operation of the Sonalert II audible signal device is dependent upon the circuit in which it is used, it is advisable to thoroughly test the selected device in the specific circuit and application to assure mechanical and electrical compatibility and verify system performance.

Models MSR516N, MSR516NP, & MSR516NJ Sonalert II™ Audible Signal Devices - Extra Loud



- Made in USA
- Low Power Consumption
- Low Cost
- Low Profile and Compact
- Piezo Tone Quality
- Wave Solderable
- Extra Loud Sound Output

GENERAL SPECIFICATION

Resonant Frequency:
3.40 ±.4 kHz

Min. Sound Pressure @ 12VDC
85 db(A) @ 2ft.

Rated Voltage:
5-16 VDC to +65°C

Max. Current:
3-16 mA @ 5-16 VDC

Pulse Rate:
2-10pps (MSR516NP)
.5-2 pps (MSR516NJ)

Operating Temperature:
-20°C to +65°C

Storage Temperature:
-30°C to +80°C

Solder Temperature:
+270°C for 3 seconds

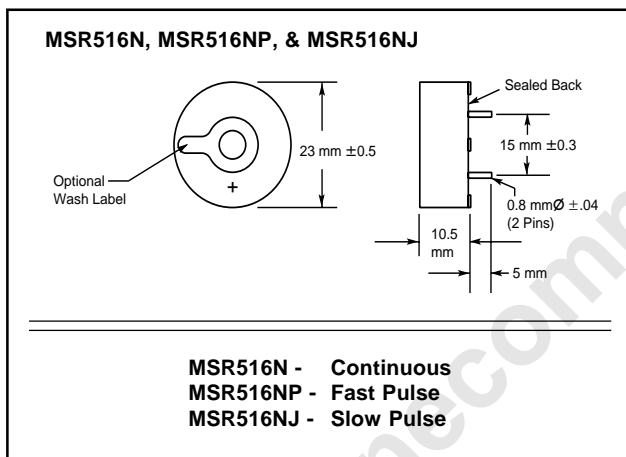
Case Material (Blue)
VALOX (UL-94V0)

Weight (Typical):
3.5 grams

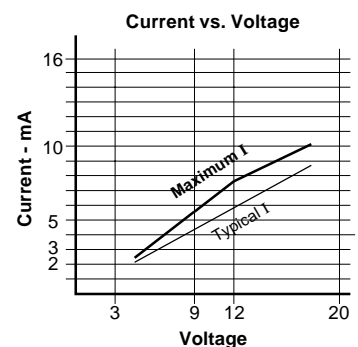
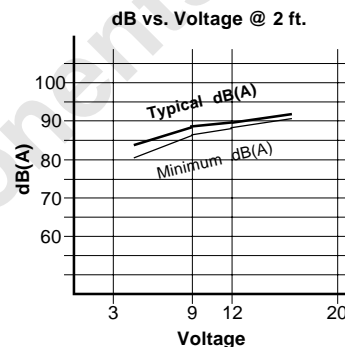
APPLICATIONS

Fire Alarm,
Crime Prevention Alarm,
Call Buzzer,
Automotive,
Clocks,
Cash Registers & P.O.S.
Equipment,
Medical Instruments,
Electrical Instruments

Shape and Dimensions (mm)



Characteristics



The MSR516N, MSR516NP, and MSR516NJ are piezoelectric audible signal devices with a built-in oscillator circuit. They are suitable replacements for the MCP320B2.

The MSR516N, MSR516NP, and MSR516NJ are suitable for wave soldering when ordered with the sound emission hole covered with a wash label. The recommended maximum temperature and exposure time for wave soldering is +270° C and 3 seconds respectively.

Optional wash label may be ordered by adding 'S' to model number.

Example: MSR516NS

Typical Reference Conditions for Various Applications

Sound Pressure @ 12VDC

100 db(A) @ 10 cm
91 db(A) @ 30 cm
85 db(A) @ 2 ft. (Spec)
82 db(A) @ 100 cm

Because the operation of the Sonalert II audible signal device is dependent upon the circuit in which it is used, it is advisable to thoroughly test the selected device in the specific circuit and application to assure mechanical and electrical compatibility and verify system performance.

Type MCP320 Minilert Audible Signal Devices



- Low Power Consumption
- Low Cost
- Piezoelectric Tone Quality
- Wave Solderable
- Compact

GENERAL SPECIFICATIONS

Resonant Frequency:
3.15 ± 0.5 kHz

Min. Sound Pressure (dB/2 Ft.):
55 dB @ 3 VDC, 74 dB @ 20 VDC

Rated Voltage to 70°C:
3-20 VDC

Max. Current:
3 mA @ 3 VDC & 20 mA @ 20 VDC

Operating Temperature:
-20°C to +70°C

Storage Temperature:
-30°C to +80°C

Solder Temperature:
270°C for 3 seconds

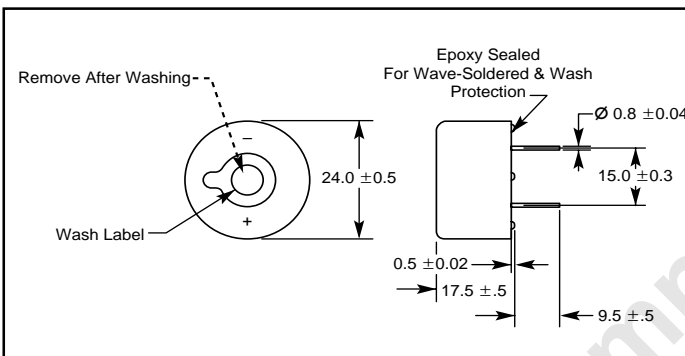
Case Material (Black):
ABS UL-94VO

Weight (Typical):
4.3 grams

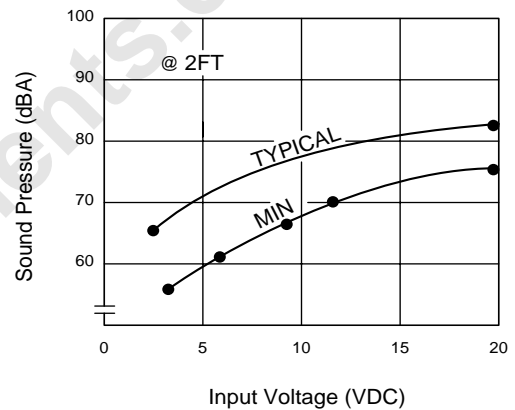
APPLICATIONS

- Fire Alarms
- Crime Prevention Alarms
- Call Buzzers
- Automotive
- Clocks
- Cash Registers & Point of Sale Equipment
- Medical Instruments
- Electrical Instruments

Shape and Dimensions (mm)

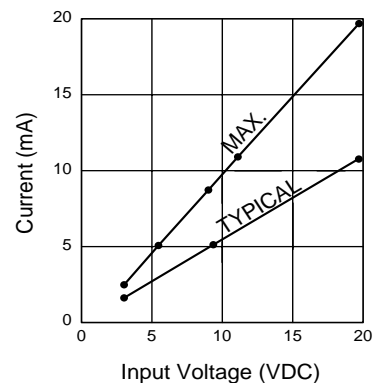


Characteristics



Replacement for MCP320B2

A piezoelectric audible signal with a built-in oscillator circuit. The MCP320 is suitable for wave soldering with the sound emission hole covered.



— Made in Korea —

Notice

Because the operation of the Minilert audible signal device is dependent upon the circuit in which it is used, it is advisable to thoroughly test the selected device in the specific circuit and application to assure mechanical and electrical compatibility and verify system performance.