

Description

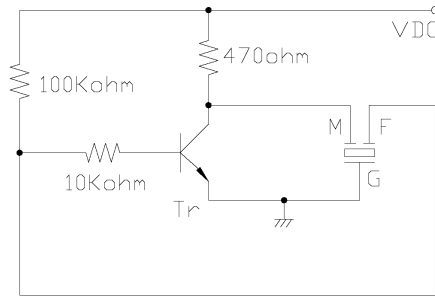
Chinasound Piezo transducer with Feedback disc, 24.5(<25mm) diameter, type Z(=8mm height), 12VDC rated voltage – 3.5KHz resonant frequency, RoHS compliant

- ◆ RoHS compliant
- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Flame Retardant Plastic

Picture



Driving Circuit



Tr:2SC1815Y or equivalent

Specification

- Rated Voltage
- Operating Voltage
- Operating Frequency
- Typical Sound Output
- Rated Current
- Capacitance
- Operating Temp.
- Storage Temperature
- Termination

12 VDC
 3 ~ 20 VDC.
 3,500+/-500Hz
 80dB min. at 12VDC 10cm 25°C
 20 mA at 12VDC 25°C
 18,000+/-30% pF at 100Hz 1Vrms
 -40°C to +85°C
 -40°C to +90°C

- Construction Materials
- Weight (Typical)
- Reliability

- Description
- Termination Strength
- Case
- Diaphragm

3 soldering pins, Sn plated Brass
 Maximum of 9.8N (1kgs) for 10 seconds load pull test
 Plastic, Noryl PX9406 or equal
 Brass Disc
 2.4 g

- *Life Test
- *High Temperature
- *Low Temperature
- *Humidity
- *Thermal Shock
- *Vibration
- *Shock
- *Drop Test

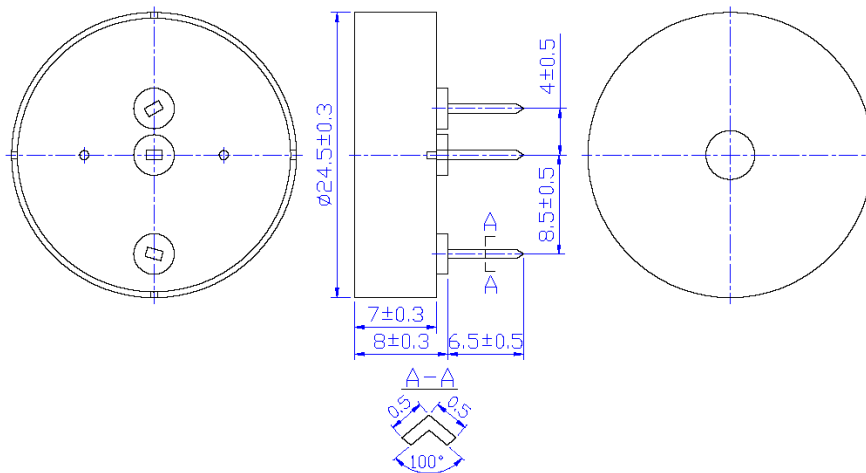
At 12 VDC in room temperature, continuously for 1000 hours
 No function at +90+/-2°C for 240 hours; Function at +85+/-2°C for 240 hours
 No function at -40+/-2°C for 240 hours; Function at -40+/-2°C for 240 hours
 +40+/-2°C, 95+/-5%RH, 240 hours
 -40+/-2°C 0.5 hr → +25+/-2°C 0.25 hr → +85+/-2°C 0.5 hr → +25+/-2°C 0.25 hr. Temperature Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles
 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours
 980m/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
 Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied
 Lead terminals are immersed up to 1.5mm from sounder's body in solder bath of 350+/-5°C for 3+/-0.5 seconds or 260+/-5°C for 10+/-1 seconds
 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 350+/-5°C for 3+/-0.5 seconds.

- *Soldering Heat Resistance
- **Solderability

Warranty

For a period of one (1) year from date of manufacture under normal operations
 * All specifications must be satisfied after the test (Recovery:2 to 4 hrs of recovery under the standard condition after the removal from test chamber).
 **90% min. soldering pads shall be with solder.(except the edge of terminal)

Dimensions (Unit:mm)



All specifications are subject to change without notice

Composed by: Guo J/101231 Checked by: Gong YS, Zhu YC/101231 Approved by: Wang Z/101231



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Revisions History

Version Number	Description	Name
990513	Original, CPT25Z	Guo Jun
041011	Part number is changed to CPT25ZF12-3.5	Guo Jun
051021	Switched to RoHS compliant version, PN is change to CPT25ZF12-3.5R	Guo Jun
101231	Part number is changed to CPF25Z12-3.5R	Guo Jun

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