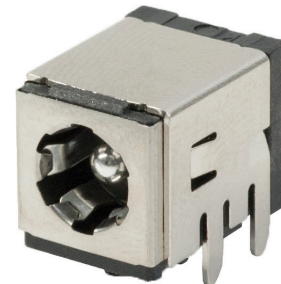


**MODEL:** PJ-082BH | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 10 A current rating
- shielded
- no internal switch

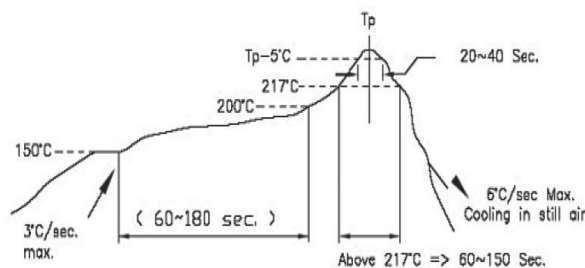
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 36    |     | Vdc    |
| rated input current        |                        |     |       | 10  | A      |
| contact resistance         |                        |     |       | 30  | mΩ     |
| insulation resistance      | at 500 Vdc             | 100 |       |     | MΩ     |
| voltage withstand          | for 1 minute           |     |       | 500 | Vac    |
| insertion/withdrawal force |                        | 0.3 |       | 3   | kg     |
| operating temperature      |                        | -25 |       | 85  | °C     |
| life                       |                        |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                |     |       |     |        |
| RoHS                       | yes                    |     |       |     |        |

**SOLDERABILITY**

| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | 10~30°C, <70% humidity   |     |     |     | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile   | 255 | 260 |     | °C    |
| drying conditions <sup>2</sup> | parts in reel: bake at 110°C for 4 hours<br>parts removed from reel: bake at 110°C for 4 hours |     |     |     |       |

Note: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >240 hours.



\* Time 25°C to Peak Temp. ---- 8 Minutes Max.

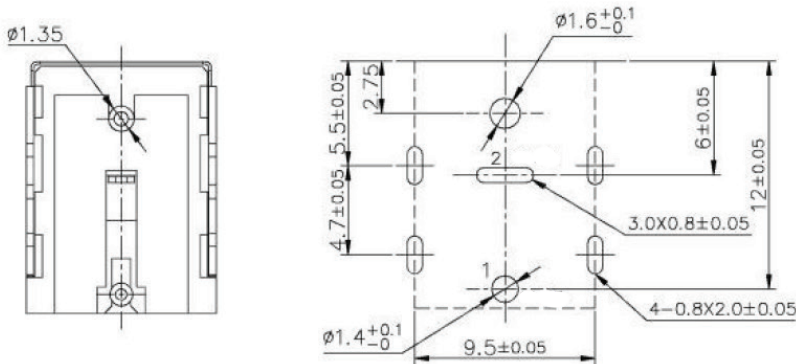
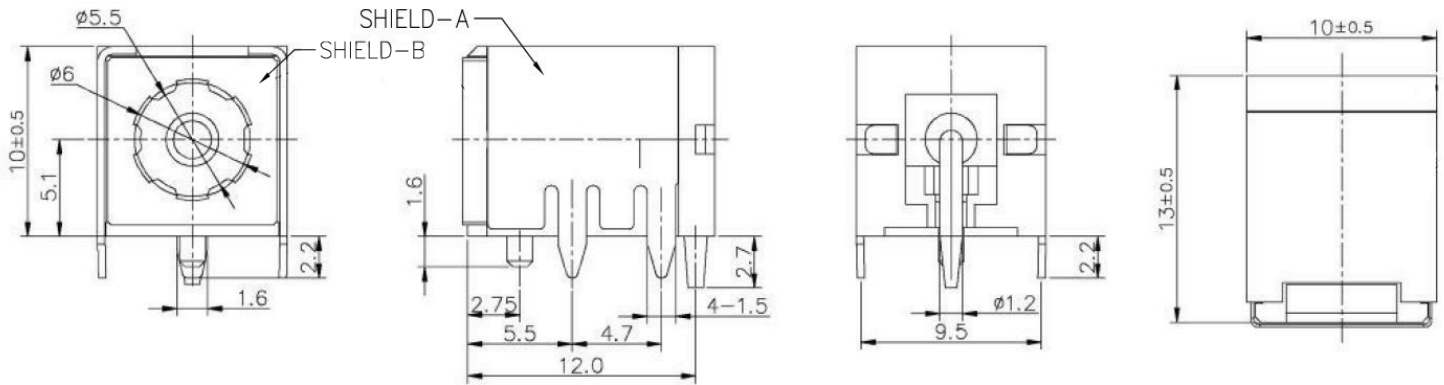
\* Time within 5°C of Actual Peak Temp. -- 20~40 Seconds

## MECHANICAL DRAWING

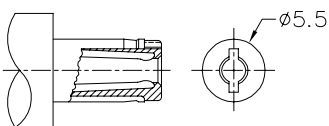
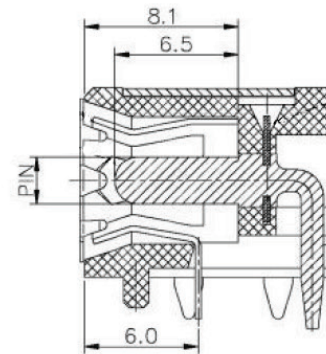
units: mm

tolerance:  
 $X \leq 4.0$ :  $\pm 0.2$  mm  
 $4.0 < X \leq 16$ :  $\pm 0.3$  mm  
 PCB:  $\pm 0.05$  mm

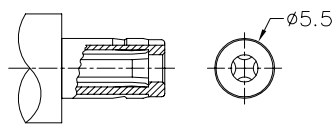
| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| terminal 1  | brass          | silver        |
| terminal 2  | copper t=0.30  | silver        |
| stopper     | SUS 301 t=0.30 |               |
| shield A    | SPCC t=0.40    | nickel        |
| shield B    | SUS 301 t=0.15 |               |
| housing     | PA9T (UL94V-0) | black         |




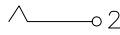
Recommended PCB Layout  
Top View



MATING PLUG  
7 A



MATING PLUG  
10 A

|           |  |
|-----------|--|
| Schematic |  1<br> 2 |
| Model     | Center Pin   |
| PJ-082BH  | $\phi 2.5$ mm  |

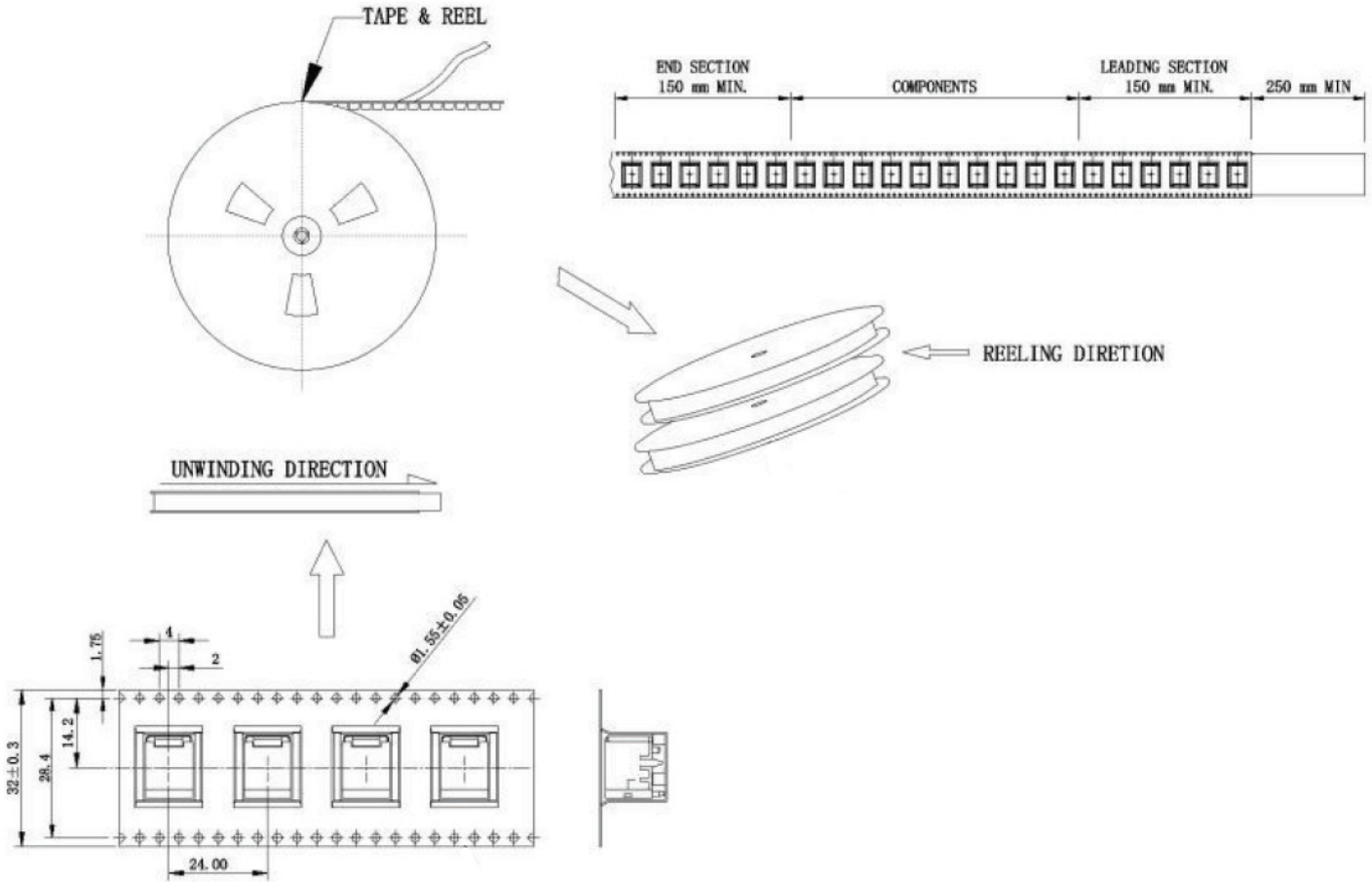
Jack Insertion Depth: 8.1 mm

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 200 pcs per reel



## REVISION HISTORY

| rev. | description  | date       |
|------|--|------------|
| 1.0  | initial release  | 03/23/2012 |
| 1.01 | increased voltage rating   | 05/18/2016 |
| 1.02 | increased voltage rating, added storage and drying conditions, and tape and reel packaging details | 10/06/2017 |
| 1.03 | brand update   | 10/31/2019 |
| 1.04 | product reengineered for improved manufacturability and production yield, see PCN for details      | 01/09/2023 |

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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