

Additional Resources: Product Page | 3D Model | PCB Footprint

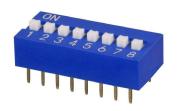
date 09/12/2024

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SERIES: DS01-254 | DESCRIPTION: DIP SWITCH

FEATURES

- 2.54 mm pitch
- · convex or flat bottom option
- 1~12 pole options
- long or short pin option
- · raised actuator
- through hole





SPECIFICATIONS

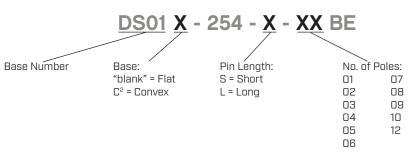
| parameter | conditions/description | min | typ | max | units |
|--------------------------|----------------------------|------|-----|-----------|------------|
| rated voltage (per pole) | switching non-switching | | | 24 50 | Vdc Vdc |
| rated current (per pole) | switching non-switching | | | 25 100 | mA mA |
| withstanding voltage | for 1 minute | | 300 | | Vac |
| contact resistance | initial after life test | | | 50 100 | m Ω |
| insulation resistance | at 500 Vdc | 100 | | | МΩ |
| operating force | | | | 1000 | g |
| switch travel | | | | 2 | mm |
| operating temperature | | -40 | | 85 | °C |
| storage temperature | | -40 | | 85 | °C |
| life | | 2000 | | | cycles |
| flammability rating | UL94V-O | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|-----------------------------|------------------------|-----|-----|-----|-------|
| hand soldering ¹ | for maximum 3 seconds | 315 | 320 | 325 | °C |
| wave soldering ¹ | for maximum 5 seconds | 240 | 250 | 260 | °C |

Notes: 1. Keep in "off" position during soldering.

PART NUMBER KEY

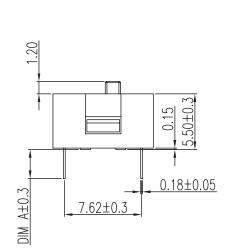


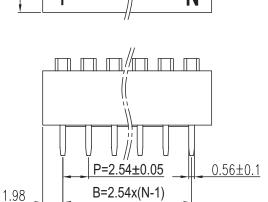
Notes: 2. Convex base only available in poles 3~12.

MECHANICAL DRAWING

units: mm tolerance: $0.5 < X \le 3.0$: ± 0.15 mm $3.0 < X \le 6.0$: ± 0.20 mm $6.0 < X \le 30.0$: ± 0.25 mm $30.0 < X \le 120.0$: ± 0.30 mm $120.0 < X \le 400.0$: ± 0.50 mm X > 400.0: ± 0.80 mm unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|---------------|---------------|
| 1 | actuator | PBT (UL94V-0) | white |
| 2 | housing | PBT (UL94V-0) | blue |
| 3 | pin 1 | copper alloy | gold |
| 4 | pin 2 | copper alloy | gold |
| 5 | base | PBT (UL94V-0) | black |
| | | | |

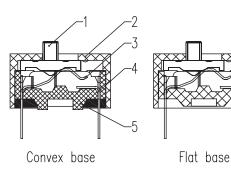


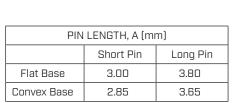


L=PxN+1.42±0.3

ON

 9.90 ± 0.3





| SCHEMATIC | |
|-----------------|--|
| 20,0,0,((0,0,0, | |
| N POS AVAIL | |

| B=2.54x(N-1) |
|---|
| 2.54 |
| → - → - → // → → → - → - → - → - → - → - |
| [62] |
| |
| → - → - → / ⋈ - → - - ' |
| <u> </u> |
| Parammended DCR Lavout |

Recommended PCB Layout Top View

| This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles. | | | | | | | | | | | |
|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| N | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 12 |
| L | 3.96 | 6.50 | 9.04 | 11.58 | 14.12 | 16.66 | 19.20 | 21.74 | 24.28 | 26.82 | 31.90 |
| В | | 2.54 | 5.08 | 7.62 | 10.16 | 12.70 | 15.24 | 17.78 | 20.32 | 22.86 | 27.94 |

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SAME SKY | SERIES: DS01-254 | DESCRIPTION: DIP SWITCH

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REVISION HISTORY

| rev. | description | date |
|------|-----------------------------------|------------|
| 1.0 | initial release | 11/21/2019 |
| 1.01 | logo, datasheet style update | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



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

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.