

# SSL1D101BDPV

Harmony, Solid state relay pre assembled, 0.1 A, DC switching, screw sockets, input 16...30 V DC, output 1...48 V DC



## Main

|                           |                              |
|---------------------------|------------------------------|
| Range of Product          | Harmony Solid State Relays   |
| Product or Component Type | Solid state relay up to 10 A |
| Device short name         | SSL                          |
| Phase                     | 1 phase                      |
| Output switching mode     | DC switching                 |

## Complementary

|                              |                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting Support             | Screw socket                                                                                                                                        |
| Line Rated Current           | 0.1 A                                                                                                                                               |
| Output voltage               | 1...48 V DC                                                                                                                                         |
| [Uc] control circuit voltage | 16...30 V DC                                                                                                                                        |
| CLAMPING FORCE               | < 0.5 N.m<br>4.4 lb-in                                                                                                                              |
| Connections - terminals      | Flexible cable with cable end, 0.2...2.5 mm <sup>2</sup> AWG 24...AWG 14)<br>Solid cable with cable end, 0.2...2.5 mm <sup>2</sup> AWG 24...AWG 14) |
| Capacitance unbalance        | 1.5 pF input/output                                                                                                                                 |
| Minimum switching voltage    | 16 V DC turn-on                                                                                                                                     |
| Maximum switching voltage    | 5 V DC turn-off                                                                                                                                     |
| Input impedance              | 3.43 kOhm                                                                                                                                           |
| Solid state output type      | Transistor output<br>DC switching                                                                                                                   |
| Load current                 | 0.001...0.1 A                                                                                                                                       |
| Tansient Overvoltage         | 60 V DC                                                                                                                                             |
| Surge current                | 0.3 A 10 ms                                                                                                                                         |
| Maximum voltage drop         | <1 V on-state                                                                                                                                       |
| Maximum leakage current      | 0.001 mA off-state                                                                                                                                  |
| Response time                | 0.25 ms (turn-on)<br>0.12 ms (turn-off)                                                                                                             |
| Overvoltage category         | III                                                                                                                                                 |
| Width                        | 0.24 in (6.2 mm)                                                                                                                                    |
| Height                       | 3.80 in (96.5 mm)                                                                                                                                   |
| Depth                        | 3.13 in (79.5 mm)                                                                                                                                   |
| Net Weight                   | 0.06 lb(US) (0.0285 kg)                                                                                                                             |

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## Environment

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| Flame retardance                      | V0 conforming to UL 94                                         |
| Dielectric strength                   | 2500 V for input/output                                        |
| Pollution degree                      | 2                                                              |
| Standards                             | IEC 60950-1<br>IEC 61000<br>IEC 62314<br>IEC 61984<br>EN 61984 |
| Product Certifications                | UL<br>CSA<br>CE<br>UL 508<br>CSA22.2 No. 14-10<br>GOST         |
| Marking                               | CURus<br>CSA<br>CE<br>EAC                                      |
| IP degree of protection               | IP20                                                           |
| Ambient air temperature for operation | -4...158 °F (-20...70 °C)                                      |
| Ambient Air Temperature for Storage   | -4...185 °F (-20...85 °C)                                      |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 3606489562984                 |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 0.95 oz (27 g)                |
| Returnability         | Yes                           |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 0.24 in (0.6 cm)       |
| Package 1 width              | 3.15 in (8 cm)         |
| Package 1 Length             | 3.82 in (9.7 cm)       |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 30                     |
| Package 2 Weight             | 31.25 oz (886 g)       |
| Package 2 Height             | 3.54 in (9 cm)         |
| Package 2 width              | 3.94 in (10 cm)        |
| Package 2 Length             | 7.87 in (20 cm)        |
| Unit Type of Package 3       | S03                    |
| Number of Units in Package 3 | 60                     |
| Package 3 Weight             | 6.05 lb(US) (2.744 kg) |
| Package 3 Height             | 11.81 in (30 cm)       |
| Package 3 width              | 11.81 in (30 cm)       |
| Package 3 Length             | 15.75 in (40 cm)       |

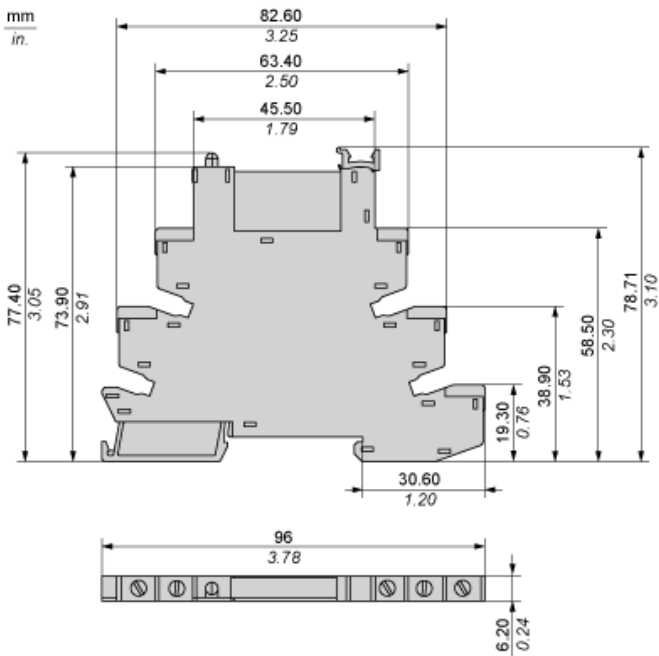
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                         |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 Months |
|----------|-----------|

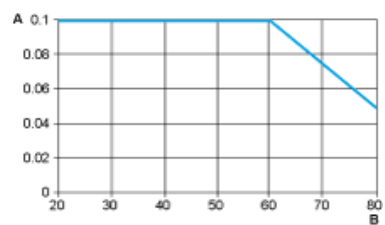
Dimensions



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Derating Curves

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A : Load Current (Amperes)  
B : Ambient Temperature (°C)

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