

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 12 V DC, output: 12 - 60 V DC/max. 3 A

The illustration shows version EMG 17-OV, with DC voltage output, max. 3 A

Product Features

- ☑ RC protective circuit
- ☑ Protective circuit in input and output
- ✓ Zero voltage switch
- ☑ Electrical isolation





Key commercial data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 017918 084806 |
| Weight per Piece (excluding packing) | 87.09 GRM |
| Custom tariff number | 85364190 |
| Country of origin | Germany |

Technical data

Note

| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions



Technical data

Dimensions

| Width | 17.5 mm |
|--------|---------|
| Height | 75 mm |
| Depth | 102 mm |

Ambient conditions

| Ambient temperature (operation) | -20 °C 60 °C |
|---|--------------|
| Ambient temperature (storage/transport) | -20 °C 70 °C |
| Degree of protection | IP20 |

Input data

| Nominal input voltage U _N | 12 V DC |
|---|--------------------------------------|
| Input voltage range in reference to U _N | 0.8 1.2 |
| Switching threshold "0" signal in reference to U _N | ≤ 0.4 |
| Switching threshold "1" signal in reference to U _N | ≥ 0.8 |
| Typical input current at U _N | 7 mA |
| Typical response time | 20 μs |
| Typical turn-off time | 200 µs |
| Status display | Yellow LED |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| Transmission frequency | 500 Hz |

Output data

| Output nominal voltage | 60 V DC |
|--|--------------------------------------|
| Output voltage range | 12 V DC 60 V DC |
| Limiting continuous current | 3 A (see derating curve) |
| Peak offstate voltage | 60 V DC |
| Voltage drop at max. limiting continuous current | 1.2 V |
| Output circuit | 2-wire, floating |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |

Connection data

| Connection method | Screw connection |
|------------------------------------|------------------|
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid min. | 0.2 mm² |



Technical data

Connection data

| Conductor cross section solid max. | 4 mm² |
|--|---------------------|
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |

General

| Test voltage input/output | 3.5 kV AC |
|---|---------------------------|
| | 3.5 kV AC |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Inflammability class according to UL 94 | V0 |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | Basic insulation |

Classifications

eCl@ss

| eCl@ss 4.0 | 27371102 |
|------------|----------|
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCI@ss 8.0 | 27371001 |

ETIM

| ETIM 2.0 | EC001504 |
|----------|----------|
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |
| ETIM 5.0 | EC001504 |

UNSPSC

| UNSPSC 6.01 | 30211916 |
|---------------|----------|
| UNSPSC 7.0901 | 39121542 |

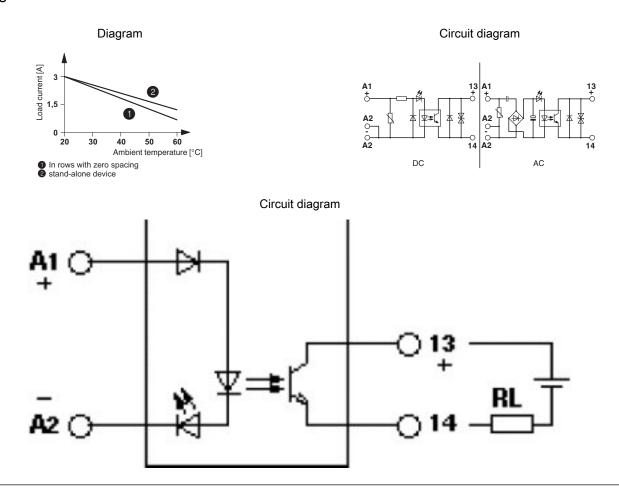


Classifications

UNSPSC

| UNSPSC 11 | 39121542 |
|--------------|----------|
| UNSPSC 12.01 | 39121542 |
| UNSPSC 13.2 | 39121542 |

Drawings



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