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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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Solid-state relay module - EMG 10-OV- 60DC/24DC/1 - 2944232

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: 5 - 36 V DC/max. 1 A


The illustration shows version EMG 10-OV, with DC voltage output, max. 1 A

Product Features

- ✓ RC protective circuit
- ✓ EMG-17-OV, short-circuit-proof with indicator LED
- ✓ Protective circuit in input and output
- ✓ Electrical isolation
- ✓ Zero voltage switch
- ✓ Direct control with switching levels from 5 V to 230 V and up to 2 A
- ✓ Status indicator



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 081539
Weight per Piece (excluding packing)	39.89 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
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Technical data

Dimensions

Width	10 mm
Height	75 mm
Depth	102 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

Input data

Nominal input voltage U_N	60 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Switching threshold "0" signal in reference to U_N	≤ 0.18
Switching threshold "1" signal in reference to U_N	≥ 0.9
Typical input current at U_N	4.7 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	500 Hz

Output data

Output nominal voltage	24 V DC
Output voltage range	5 V DC ... 36 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	2 A ($t = 1$ s)
Peak offstate voltage	45 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
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 mm ²
Conductor cross section solid max.	4 mm ²

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Technical data

Connection data

Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
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
eCl@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
UNSPSC 11	39121542

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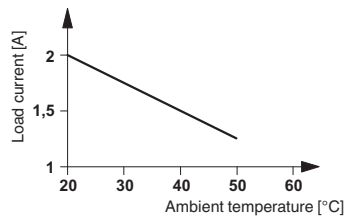
Classifications

UNSPSC

UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

Drawings

Diagram



Circuit diagram

