

RSR86

solid state relays, miniature

RSR86-35D12-32N



RSR86-35D12-32P



NEW

- DC switching (instantaneous commutation)
- DC control input (non polarized)
- MOSFET output • Load current 12 A
- Max. load voltage 35 V DC
- Dielectric strength 2 500 Vrms (opto-isolation)
- LED indicator (green)
- Suitable for PCB mounted
- Recognitions, certifications, directives:
RoHS, REACH, cULus

Applications

Recommended for applications demanding fast switching speed, intelligent measuring instruments, PCB electronic systems.



Basic technical data

Load voltage: 0...35 V DC

Control input: DC

Load current: 12 A

Type	DC switching
Load voltage	Load current
Control voltage	12 A
0...35 V DC	RSR86-35D12-32N
10...32 V DC	RSR86-35D12-32P

Load voltage

	RSR86-35...
Rated load voltage	24 V DC
Rated range of load voltage	0...35 V DC
Blocking voltage	35 V DC

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Control input

	DC switching
	RSR86-..D-32.
Control voltage range	10...32 V DC
Must turn-on voltage	10 V DC
Must turn-off voltage	< 10 V DC
Rated input current	10,7 mA 24 V DC
Control current range	3,5...14,8 mA ±10%
Response time pick-up	< 0,05 ms
Response time drop-out	< 0,25 ms

Output circuit ①

	RSR86-...12...
Rated load current	12 A up to 40 °C (stand alone installed)
Rated load range	0,1...12 A
Maximum surge current	120 A 10 ms
Min. operational current	1 mA
Maximum off-state leakage current (at rated load voltage)	0,01 mA
Maximum on-state voltage drop (at rated current)	0,05 V DC
Maximum on-state resistance	7,5 mΩ

General data ①

	RSR86-...
Dielectric strength	input - output: 2 500 Vrms 50/60 Hz
Minimum insulation resistance	input - output: 1 000 MΩ 500 V DC
Ambient temperature (non-condensation and/or icing)	storage: -40...+100 °C operating: -20...+60 °C

① Data given for ambient temperature ≤ 25 °C. Above 25 °C the maximum current decreases - see "Thermal derating curves", page 3.

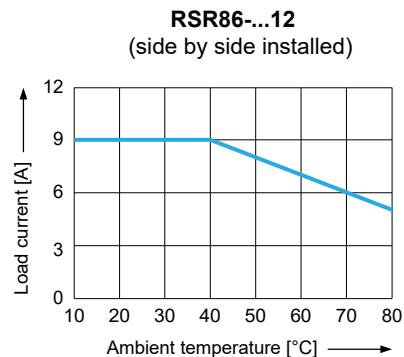
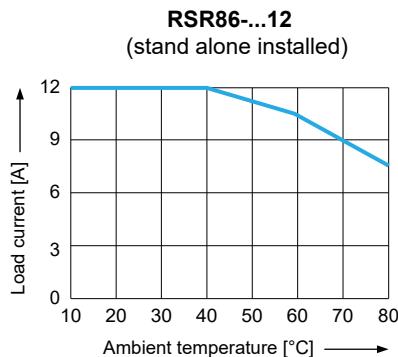
Mechanical data

	RSR86-...
Dimensions (L x W x H)	29 x 12,7 x 15,7 mm
Weight (typical)	10,5 g
Application	PCB

Mounting

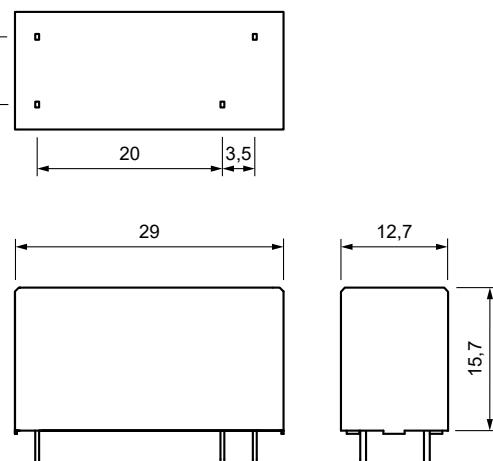
Relays **RSR86** are designed for direct PCB mounting.

Thermal derating curves

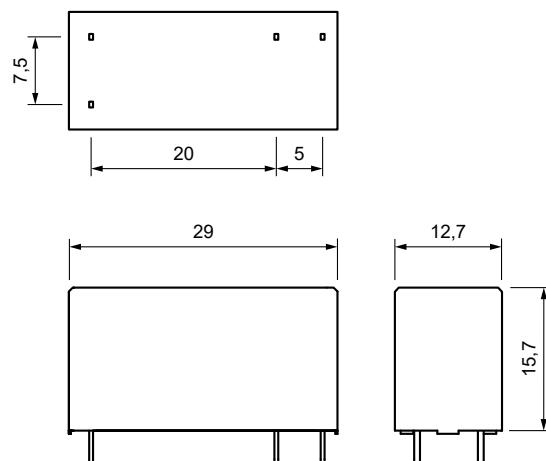


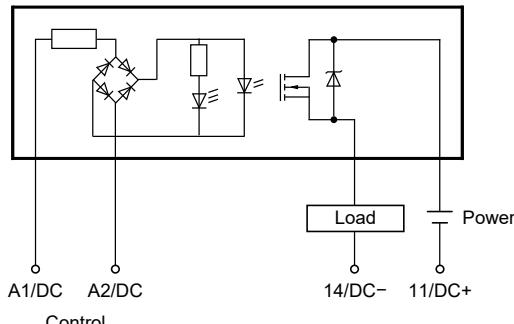
Dimensions

RSR86-...N



RSR86-...P



Connection diagram**Ordering codes**

Type	Load voltage	Control input	Load current	Input voltage	Version
RSR86					
-	35D12	-	32	-	
Load voltage 35 - 0...35 V DC					Version N - miniature for PCB (3,5 mm raster) P - miniature for PCB (5 mm raster in line)
Control input D - DC control					
Load current 12 - 12 A				Input voltage 32 - 10...32 V DC	

Examples of ordering codes ②:

RSR86-35D12-32Nrelay **RSR86**, miniature for PCB (3,5 mm raster), DC control, input voltage 10...32 V DC, load voltage 0...35 V DC, load current 12 A**RSR86-35D12-32P**relay **RSR86**, miniature for PCB (5 mm raster in line), DC control, input voltage 10...32 V DC, load voltage 0...35 V DC, load current 12 A② Ordering codes **RSR86** are specified in table "Type" on page 1.