



#### >>> Features

☐Compact size miniature PCB relays.
☐Special design of high performance for motor control of
wiper and sunroof, and window lift control.
☐ High rating 20A with maximum switching current up to 30A
☐High temperature endurance up to 125°C.
☐IR-Reflow process compatible (special version).
☐Comply with RoHS-Directive 2002/95/EC, and ELV-
Directive 2000/53/EC.

# >>> Type List

Terminal	Contact	Designation (provided with)		
style	form	Flux tight	Sealed type	Sealed type washable
DCP terminal	1A (SPNO)	102-1AH-C	102-1AH-V	102-1AH-S
PCB terminal	1C (SPDT)	102-1CH-C	102-1CH-V	102-1CH-S

#### >>> Ordering Information

102 1A Η C 1 2 3 4

1. 102 -- Basic series designation

-- Contact material AgSnO

3. H

4. C

2. 1A -- Single pole normally open

-- Sealed type

-- Flux tight

1C -- Single pole double throw

-- Sealed type washable S

#### >>> Contact Rating

Resistive load	NO/NC 20A/10A 14VDC		
Motor load	Inrush 30A Steady state 10A 14VDC, 750K ops.		
	Motor Lock : 20A 14VDC 200K ops.		

# >>> Coil Rating (DC)

Rated	Rated current	Coil resistance	Max. continuous	Pick up	Drop out	Power consumption
voltage	±10 % at 23°C	±10 % at 23°C	voltage	voltage(Max)	voltage(Min)	at rated
(V)	(mA)	$(\Omega)$	at 85°C <sup>(1)</sup>	at 23°C	at 23°C	voltage
6	107	56	125 % of	60 % of	5 % of	
9	70.8	127	rated	rated	rated	approx. 0.64W
12	53.3	225	voltage	voltage	voltage	αρρίολ. 0.0477
24	26.7	900	Tollago	Tollago	Tonago	

Note:(1)Continuous contact current at 10A.

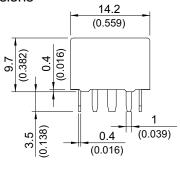


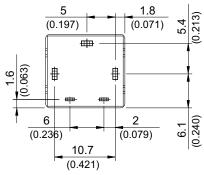
## >>> Specification

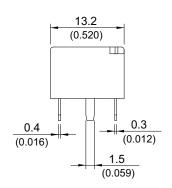
Contact material	AgSnO alloy		
Contact voltage drop (1)	Typ. 50mV at 10A		
Operate time <sup>(1)</sup>	10 ms Max.		
Release time <sup>(1)</sup>	5 ms Max.		
Insulation resistance (1)	100MΩMin. (DC 500V)		
Dielectric strength (1)	Between open contact : AC 500V , 50/60Hz 1 min.		
Dielectric strength	Between contact and coil : AC 500V , 50/60Hz 1 min.		
Vibration resistance	Operating extremes	10∼50Hz , amplitude 1.0 mm	
Vibration resistance	Damage limits	10∼50Hz , amplitude 1.0 mm	
Shock resistance	Operating extremes	10G	
Shock resistance	Damage limits	100G	
	Mechanical	10,000,000 operations	
ifo evpectancy	IVIECTIATIICAI	(frequency 18,000 operations/hr)	
Life expectancy	Electrical	100,000 operations	
	Liectrical	(frequency 360 operations/hr)	
Operating ambient temperature	-40∼+125°C (no freezing)		
Weight	Approx. 4 g		

Note:(1)Initial value.

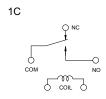
# >>> Outline Dimensions

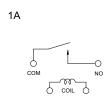






# >>> Wiring Diagram



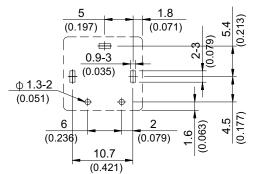


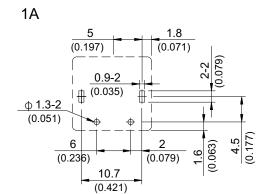


### >>> PC Board Layout

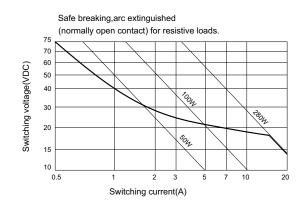
BOTTOM VIEW

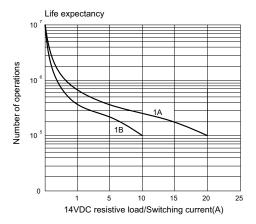
1C

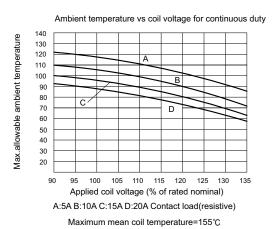


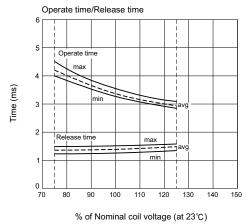


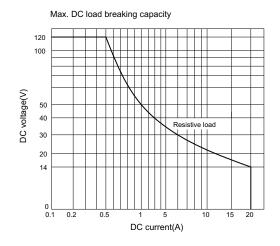
### >>> Engineering Data











# **Mouser Electronics**

**Authorized Distributor** 

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Song Chuan: 102-1CH-S-U01-12VDC