

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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G8JRAutomotive High-current ISO relay

High-current switching (inrush current 150A) relay for automotive use

- Wide operating temperature range; -40 to +125°C
- Terminal layout based on ISO



■ Type standard

1 2 3 4 5

	Classification	Symbol	Meaning of the symbol
1	Number of contact poles	1	Number of contact poles
2	Contact structure	Α	1a contact
3	Protective structure	7	Unsealed (In a case)
4	Terminal form	Т	Plug-in type
⑤	Surge suppressor	R	Built-in resistor

■ Classification

Classification	Terminal form	Contact structure	Protective structure	Rated coil voltage		Tupo
Glassification			Protective structure	Voltage (V)	Resistance (Ω)	Type
High current ISO	Plug-in ISO terminal	SPST (1a)	Unsealed (In a case)	DC12	78	G8JR-1A7T-R

■ Ratings

Operation coil

	Rated	Coil resistance (Ω)		Rated	Operating	Release	Convince voltage	Rated power	
	voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	current (mA)	voltage (V)	Itage voltage	Service voltage range (V)	consumption (mW)
	DC12	78	88	1/2W 680	154	8.0 or less	1.0 or more	DC10 to 16	1846

Switching area

	Performance
Contact material	Silver alloy
Rated voltage	DC12V
Rated load	Resistance load, 50A
Inrush current	150A
Continuous carry current*1	50A
Min. Carry / Switching Current	DC12V 1A

I Performance

Item		Standard value		
Voltage drop between terminals		50 mV or less, 10A		
Operating time*2		20 ms at longest at 14V (Normally 5.7 ms)		
Release time*2		10 ms at longest at 14V (Normally 2.3 ms)		
Insulation	Between coil and terminal	20 Μ Ω or more		
resistance*3	Between homopolar contacts	20 Μ Ω or more		
Withstand	Between coil and terminal	AC500V for 1minute		
voltage*4	Between homopolar contacts	AC500V for 1minute		
Vibration	Durability	33Hz 43.1m/s²		
tolerance	Malfunction	20 to 500Hz 43.1m/s ²		
Mechanical endurance		1,000,000 times		
Electrical endurance		100,000 times or more (load dependent)		
Ambient temperature		−40 to +125°C		
Ambient humidity		35 to 95%RH		
Weight		Approx. 39.0g		

■ Packing

G8JR-1A7T-R

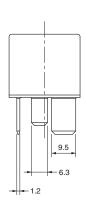
Packing form	Tray
MOQ ^{⁺5}	336pcs (48pcs to 7 trays)

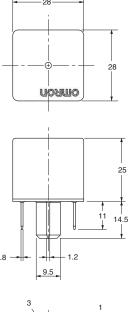
Note: All values above are measured in early time under an ambient temperature of +20°C and humidity of 65% unless stated.

- The value stated is at maximum temperature in a guaranteed ambient temperature.
- It changes depend on how a rated voltage is operated, but bounce-time is not included.
- Measured at DC500V.
- Measured under 1mA of leak current, 50/60Hz for 1minute.

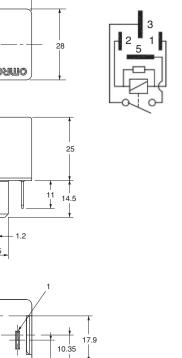
 Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

■ Dimensions (Unit: mm)





-16.8



* Tolerance unless otherwise specified Less than 1 mm: ±0.1 mm Less than 1 to 3 mm: ±0.2 mm

Terminal arrangement/ Internal connections (BOTTOM VIEW)

3 mm or more: ±0.3 mm

Please confirm Omron Safety Precautions for all automotive relays first. Omron can not guarantee automotive relays before finish making a contract with product specifications.