

Miniaturized Micro 280

- SPST version only.
- 20A Continuous Contact Rating from -40°C to 100°C.
- 80A Inrush at 12VDC.
- 280 Terminal Type.
- Fully automated assembly.
- Made in Japan.

Available Types

Type	Description
G8VL-1A4T-R-L	Miniaturized Micro 280 SPST Plug In with Resistor

Contact Data

Max Switching Current	Inrush 80A, Steady 20A
Max Switching Voltage	16V
Min. Carry / Switching Current	1A
Contact Material	Silver Tin Oxide (Cadmium Free)

Coil Ratings (at 20°C)

Type	Rated Voltage	Coil Resistance ±10%	Coil Resistance w/ 1.1k Ω suppression ±10%	Nominal Power Consumption	Pull in Voltage	Dropout Voltage
G8VL-1A4T-R-L	12VDC	150 Ω	132 Ω	1.38 W	8.0Vmax	0.7-4.0V

Typical Applications

Door Locks	Lamp
Fuel Pump	Radiator Fan
ABS	All Micro Relay Applications

Characteristics

Max. Initial Contact Voltage Drop		200mV @ 15A
NO Activation Time		10 ms max. (4.2 ms typical) @ 14 V
NO Deactivation Time		10 ms max. (2.3 ms typical*) @ 14 V
Insulation resistance		10 MΩ min (at 500 VDC)
Dielectric strength		500 VAC, for 1min between coil and contacts and between contacts.
Ambient Operating Temperature		-40°C to 100°C
Humidity		Up to 95%
Service life	Mechanical	1,000,000 operations min.
	Electrical	100,000 operations min (load dependent).
Weight		13.6g

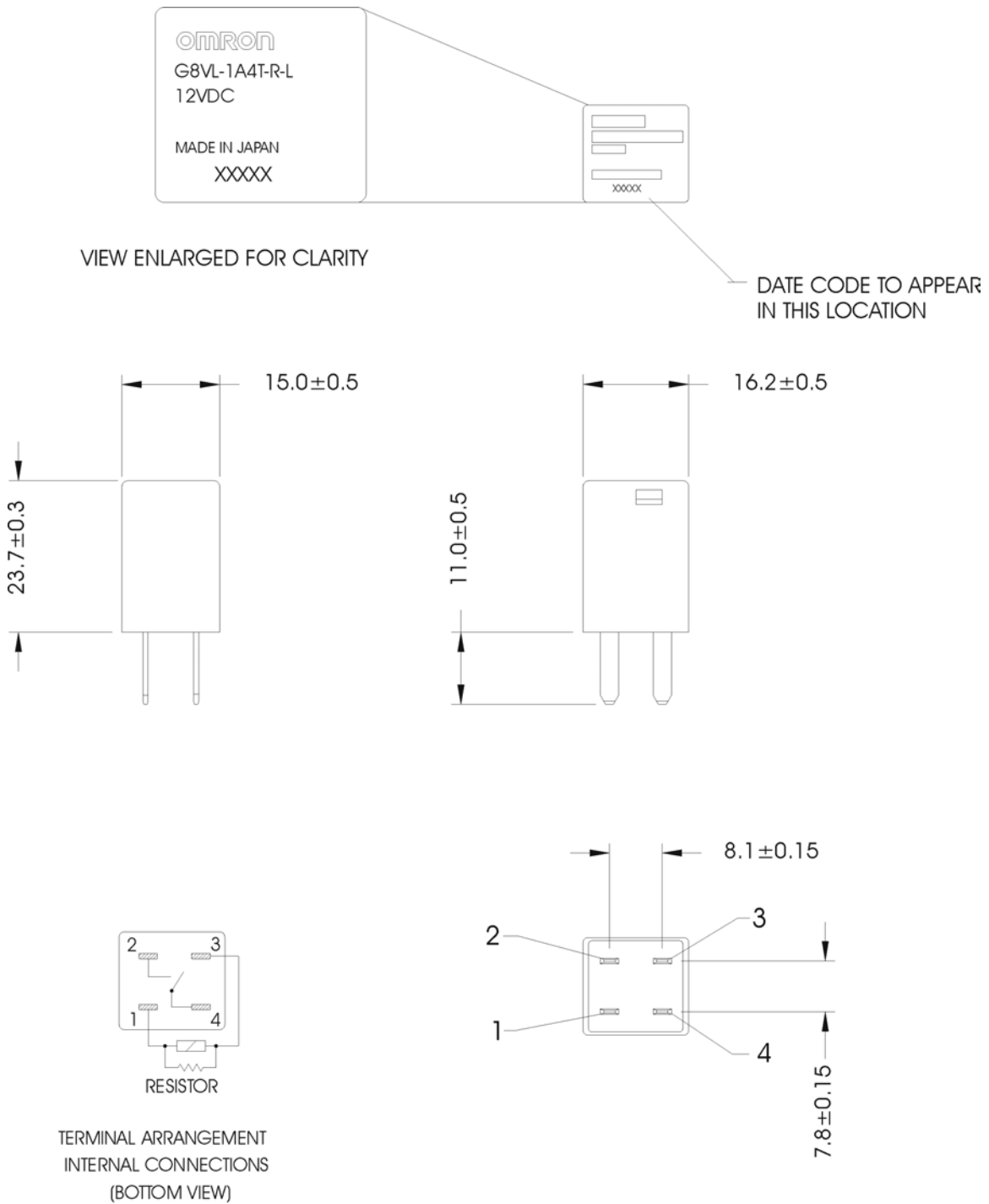
* Typical data includes coil suppression. Release times may decrease without coil suppression.

Characteristic Reference Data

Durability Data

Relay	Load Type	Current	Cycles Tested
G8VL	Inductive	4 A Steady State	880,000 3s on, 3s off -30°C to 80°C
	Motor - Fuel Pump	26.1 A Inrush	160,000 1s on, 3s off -30°C to 80°C
		7.6 A Steady State	
	Motor – Radiator Fan	71 A Inrush	440,000 2s on, 5s off -30°C to 80°C
		16 A Steady State	
	Lamp	72 A Inrush	100,000 3s on, 3s off 25°C to 100°C
		16 A Steady State	

Dimensions



Mouser Electronics

Authorized Distributor

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Omron:

[G8VL-1A4T-R-L-DC12](#) [G8VL-1A4T-R-HD-DC12](#)