

## 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<br>±10% | Coil Resistance<br>w/ 1.1k $\Omega$<br>suppression<br>±10% | Nominal Power<br>Consumption | Pull in<br>Voltage | Dropout<br>Voltage |
|---------------|---------------|-------------------------|------------------------------------------------------------|------------------------------|--------------------|--------------------|
| G8VL-1A4T-R-L | 12VDC         | 150 $\Omega$            | 132 $\Omega$                                               | 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                                                             |

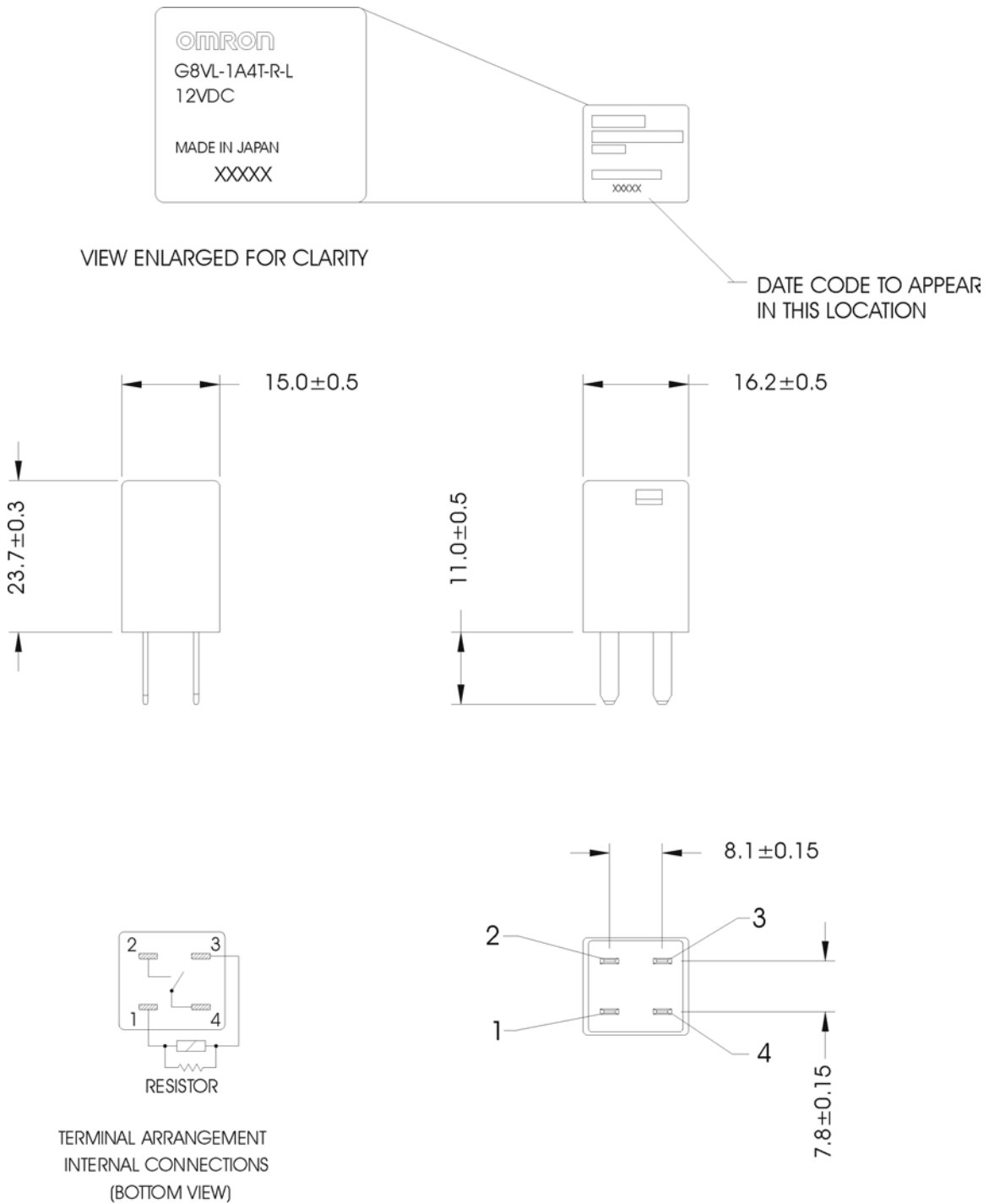
\* Typical data includes coil suppression. Release times may decrease without coil suppression.

## Characteristic Reference Data

### Durability Data

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

## Dimensions



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