# GL9E150G/ GL8E150G

## 38.1 mm Character Height Numeric LEDs

## ■ Model No.

GL9E150G/GL8E150G  Yellow-green GaP

## ■ Features

1. Character height : 38.1mm
2. 1 digit
3. Case mold type
4. Diamond cut type segments

## ■ Outline Dimensions

(Unit : mm)



Segment name
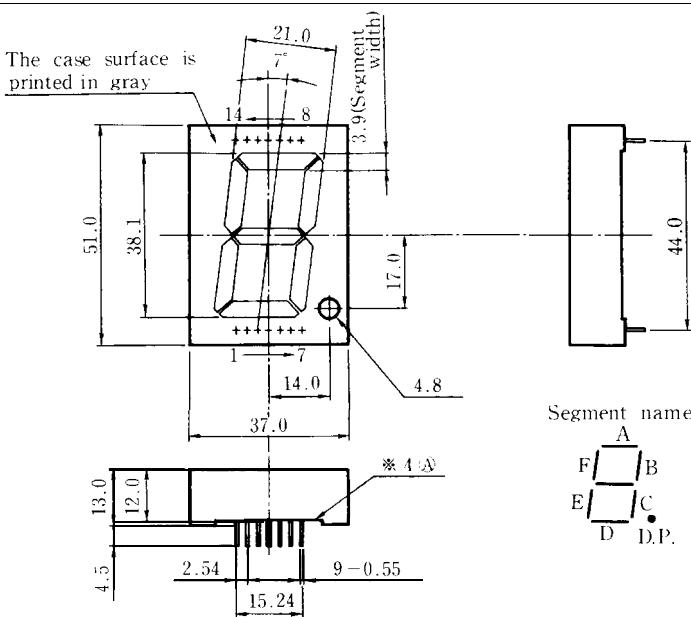
Internal connection diagram
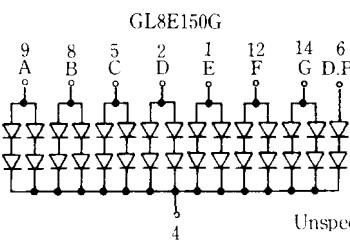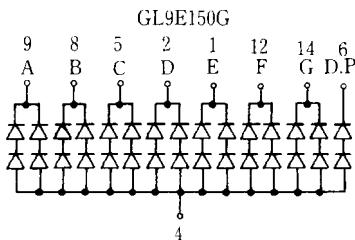
## GL9E150G/GL8E150G

### ■ Absolute Maximum Ratings

(Ta = 25°C)

| Parameter | | | Symbol | GL9E150G GL8E150G | | | | | Unit |
|---|---|---|---|---|---|---|---|---|---|
| Power dissipation | ※1 Per digit | | P | **1400** | | | | | mW |
| Continuous forward Current | ※1 Per digit | IF | 280 | | | | | | mA |
| | Per segment | IF | 40 | | | | | | mA |
| | Per decimal point | IF | 20 | | | | | | mA |
| ※2 Peak forward current | Per segment | IFM | 100 | | | | | | mA |
| | Per decimal point | IFM | 50 | | | | | | mA |
| Derating factor | ※1 Per digit | DC | — | 5.09 | | | | | mA/°C |
| | | Pulse | — | 12.73 | | | | | mA/°C |
| Reverse voltage | Per segment | VR | 6 | | | | | | V |
| | Per decimal point | VR | 6 | | | | | | v |
| operating temperature | | | Topr | −30 to +70 | | | | | °C |
| Storage temperature | | | Tstg | −40 to +80 | | | | | °C |
| ※3 Soldering temperature | | | Tsol | 260(within 5 seconds) | | | | | °C |

※1 Per digit : 7 segments
※2 Duty ratio =1/10, Pulse width =0.1ms
※3 At the position of 2.6mm from Ⓐ level of outline dimensions

**5**

## GL9E150G/GL8E150G(Yel low-green)

### ■ Electro-optical Characteristics

$(Ta = 25°C)$

| Parameter | | Symbo | Model No. | Conditions | MIN. | TYP. | MAX. | Unit |
|---|---|---|---|---|---|---|---|---|
| Forward voltage | Per segment | $V_F$ | GL9E150G/GL8E150G | $I_F = 20mA$ | | 4.0 | 5,0 | V |
| | Per decimal point | | GL9E150G/GL8E150G | $I_F = 10mA$ | | 4.() | 5.0 | V |
| *[4]Luminous intensity | Per segment | $I_v$ | GL9E150G/GL8E150G | $I_F = 20mA$ | 8.21 | 17.7 | – | mcd |
| | Per decimal point | | GL9E150G/GL8E150G | $I_F = 10mA$ | 3.0 | 6.5 | | mcd |
| Peak emission wavelength | Per segment | $a_.$ | GL9E150G/GL8E150G | $I_F = 20mA$ | | 565 | – | nm |
| | Per decimal point | | GL9E150G/GL8E150G | IF= 10mA | | 565 | | nm |
| Spectrum radiation bandwidth | Per segment | $\Delta\lambda$ | GL9E150G/GL8E150G | $I_F = 20mA$ | | 30 | — | nm |
| | Per decimal point | | GL9E150G/GL8E150G | $I_F = 10mA$ | | 3 0 | – | nm |
| Reverse current | Per segment | $I_R$ | GL9E150G/GL8E150G | $V_R = 5V$ | | | 20 | $\mu A$ |
| | Per decimal point | | GL9E150G/GL8E150G | $V_R = 5V$ | | | 10 | $\mu A$ |
| [5]Response frequency | | $f_c$ | GL9E150G/GL8E150G | – | | 0.8 | – | $MH_Z$ |

※4 Tolerance :±30%      ※5 Per segment. or per decimal point

### ■ Characteristics Diagrams

**Forward Current vs. Forward Voltage** $(Ta = 25°C)$
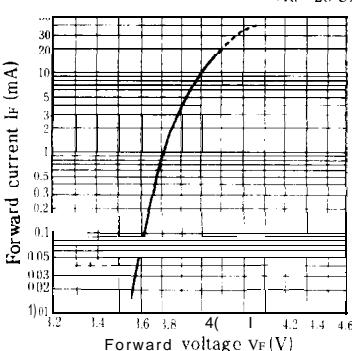


**Luminous Intensity vs. Forward Current** (Ta 25°C)
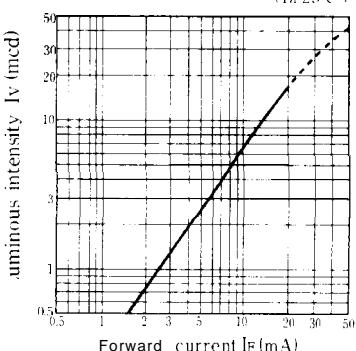


**Forward Current Derating Curve**
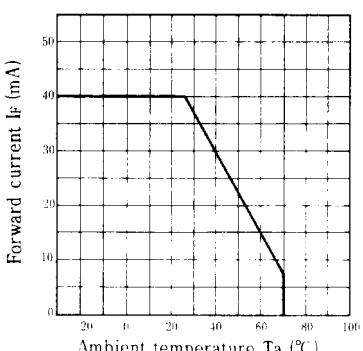


**Relative Luminous Intensity vs. Ambient Temperature** ($I_F = 20mA$)
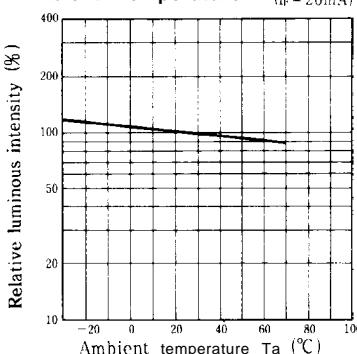


**Spectrum Distribution** (Ta = 25°C)



— SHARP —