

GL7 □ 206U / GL6U206U Series

1 0.0mm Character Height
Numeric LEDs

■ Model No.

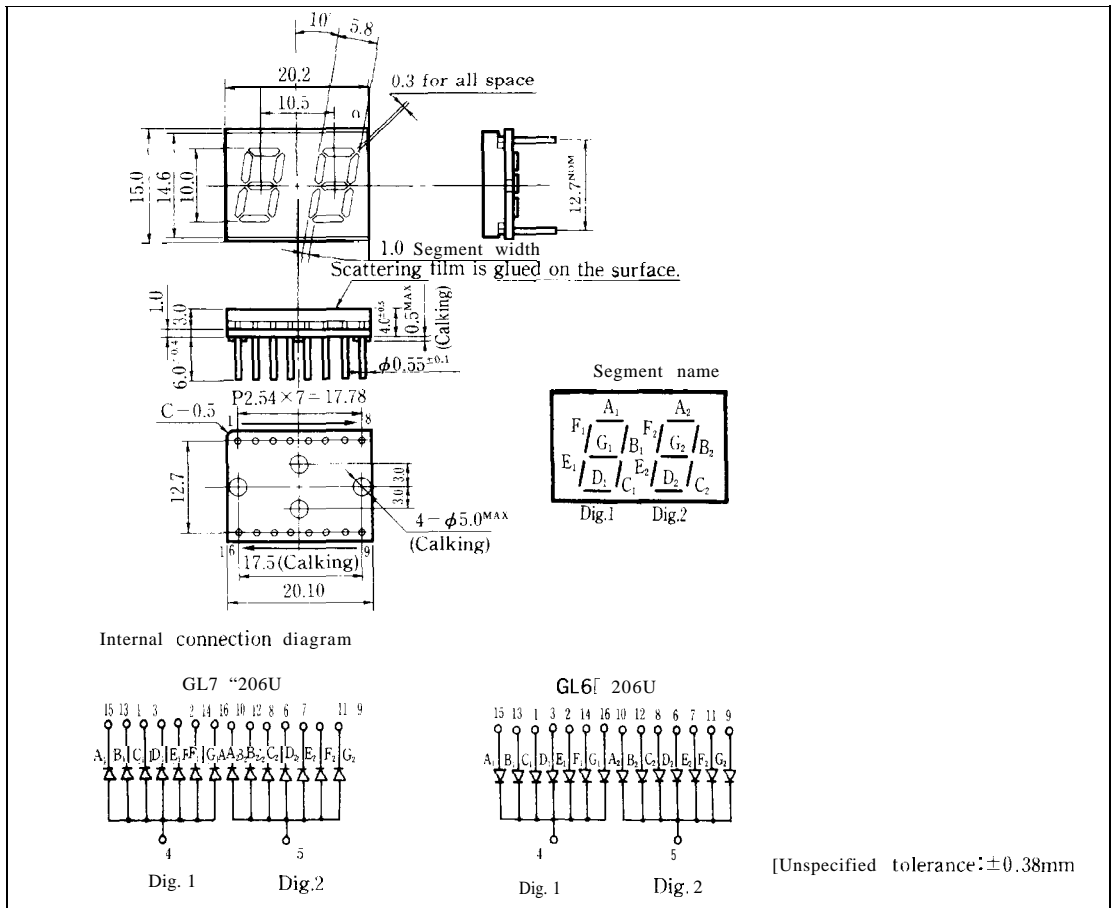
| | | |
|-------------------|--------------|-----------|
| GL7P206U/GL6P206U | Red | GaP |
| GL7D206U/GL6D206U | Red | GaAsP/GaP |
| GL7E206U/GL6E206U | Yellow-green | GaP |

■ Features

1. Character height : 10.0mm
2. 2 digits
3. Substrate type
4. Diamond cut type segments

■ Outline Dimensions

(Unit: mm)



[Unspecified tolerance: ±0.38mm]



GL7□206U / GL6□206U

■ Absolute Maximum Ratings

(Ta=25°C)

| Parameter | | Symbol | GL7P206U | GL7E206U | | | | Unit |
|----------------------------|-------------------|------------------|------------------------|----------|------|--|--|-------|
| | | | GL6P206U | GL6E206U | | | | |
| | | | GL7D206U | | | | | |
| | | | GL6D206u | | | | | |
| Power dissipation | ※1 Per digit | P | 263 | 263 | | | | mW |
| Continuous forward current | ※1 Per digit | I _F | 105 | 105 | | | | mA |
| | ※2 | I _F | 15 | 15 | | | | mA |
| ※3 Peak forward current | ※2 | I _{FM} | 50 | 50 | | | | mA |
| Derating factor | ※2 | DC | — | 0.15 | 0.15 | | | mA/°C |
| | | Pulse | — | 1.11 | 1.11 | | | mA/°C |
| Reverse voltage | Per segment | V _R | 5 | 5 | | | | V |
| | Per decimal point | V _R | — | — | | | | V |
| Operating temperature | | T _{opr} | -10 to +60 | | | | | °C |
| Storage temperature | | T _{stg} | -20 to +70 | | | | | °C |
| ※4 Soldering temperature | | T _{sol} | 260 (within 3 seconds) | | | | | °C |

※1 Per digit: 7 segments

※2 Per segment

※3 Duty ratio= 1/10, Pulse width =0.1ms

※4 At the position of 1.0 mm from the bottom face of substrate

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GL7P206U/GL6P206 U(Red) ,GL7D206U/GL6D206 U(Red)

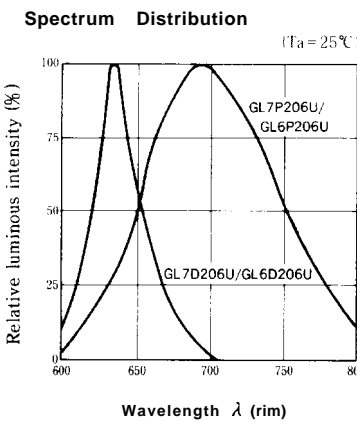
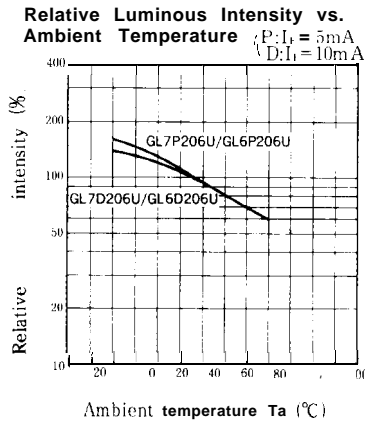
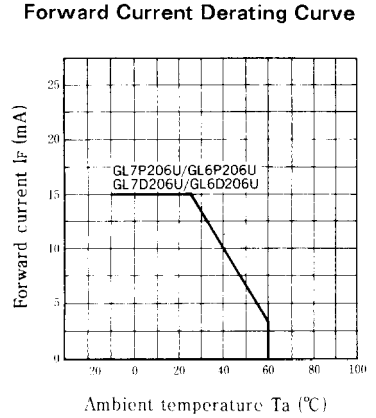
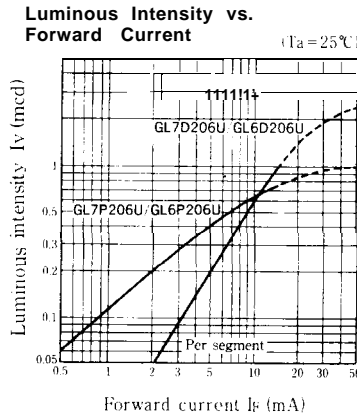
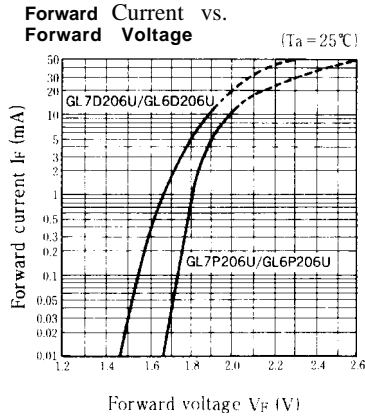
■ Electro-optical Characteristics

(Ta = 25°C)

| Parameter | Symbol | Model No. | Conditions | MIN. | TYP. | MAX. | Unit | |
|---------------------------------|-------------------|-------------------|-----------------------|-----------------------|------|------|------|-----|
| Forward voltage | Per segment | V _F | GL7P206U/GL6P206U | I _F = 5mA | — | 1.9 | 2.5 | V |
| | | | GL7D206U/GL6D206U | I _F = 10mA | — | 1.85 | 2.5 | V |
| | Per decimal point | — | — | — | — | — | V | |
| *5 Luminous intensity | Per segment | I _v | GL7P206U/GL6P206U | I _F = 5mA | 0.15 | 0.4 | — | mcd |
| | | | GL7D206U/GL6D206U | I _F = 10mA | 0.2 | 0.6 | — | mcd |
| | Per decimal point | — | — | — | — | — | mcd | |
| *2 Peak emission wavelength | λ _p | GL7P206U/GL6P206U | I _F = 5mA | — | 695 | — | nm | |
| *2 Spectrum radiation bandwidth | Δλ | GL7D206U/GL6D206U | I _F = 10mA | — | 635 | — | nm | |
| | | GL7P206U/GL6P206U | I _F = 5mA | — | 100 | — | nm | |
| Reverse current | Per segment | I _R | GL7P206U/GL6P206U | V _R = 4V | — | — | 10 | μA |
| | | | GL7D206U/GL6D206U | V _R = 4V | — | — | 10 | μA |
| | Per decimal point | — | — | — | — | — | μA | |
| *2 Response frequency | f _c | GL7P206U/GL6P206U | — | — | 4 | — | MHz | |
| | | GL7D206U/GL6D206U | — | — | 4 | — | MHz | |

*2 Per segment
*5 Tolerance: ±30%

Characteristics Diagrams



GL7E206U/GL6E206 U(Yellow-green)

■ Electro-optical Characteristics

(Ta = 25°C)

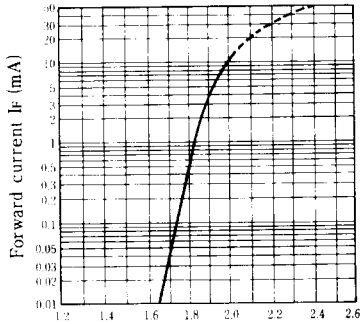
| Parameter | | Symbol | Model No. | Conditions | MIN. | TYP. | MAX. | Unit |
|---------------------------------|-------------------|----------------|-------------------|-----------------------|------|------|------|------|
| Forward voltage | Per segment | V _F | GL7E206U/GL6E206U | I _F = 10mA | — | 2.0 | 2.5 | V |
| | Per decimal point | | — | — | — | — | — | v |
| *5 Luminous intensity | Per segment | I _v | GL7E206U/GL6E206U | I _F = 10mA | 0.3 | 1.0 | — | mcd |
| | Per decimal point | | — | — | — | — | — | mcd |
| *2 Peak emission wavelength | | λ _p | GL7E206U/GL6E206U | I _F = 10mA | | 565 | — | nm |
| *2 Spectrum radiation bandwidth | | Δλ | GL7E206U/GL6E206U | I _F = 10mA | | 30 | — | nm |
| Reverse current | Per segment | I _R | GL7E206U/GL6E206U | V _R = 4V | — | — | 10 | μA |
| | Per decimal point | | — | — | — | — | — | μA |
| *2 Response frequency | | f _c | GL7E206U/GL6E206U | — | | 4 | — | MHz |

*2 Per segment
 *5 Tolerance: ±30%

■ Characteristics Diagrams

Forward Current vs. Forward Voltage

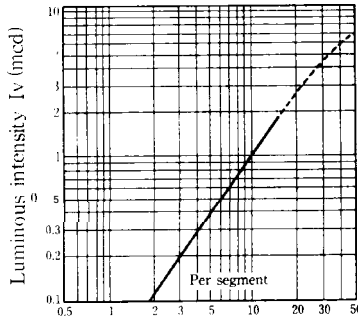
(Ta = 25°C)



Forward voltage V_F (V)

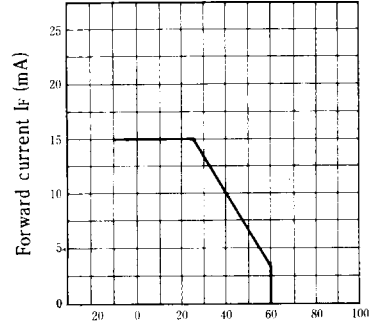
Luminous Intensity vs. Forward Current

(Ta = 25°C)



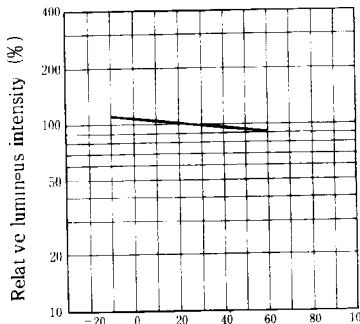
Forward current I_F (mA)

Forward Current Derating Curve



Ambient temperature T_a (°C)

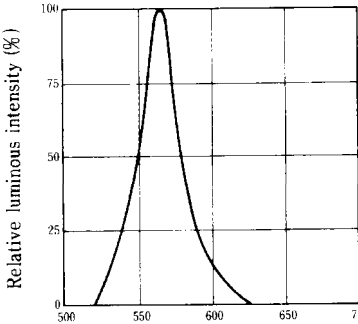
Relative Luminous Intensity vs. Ambient Temperature (I_F = 10mA)



Ambient temperature T_a (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)



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