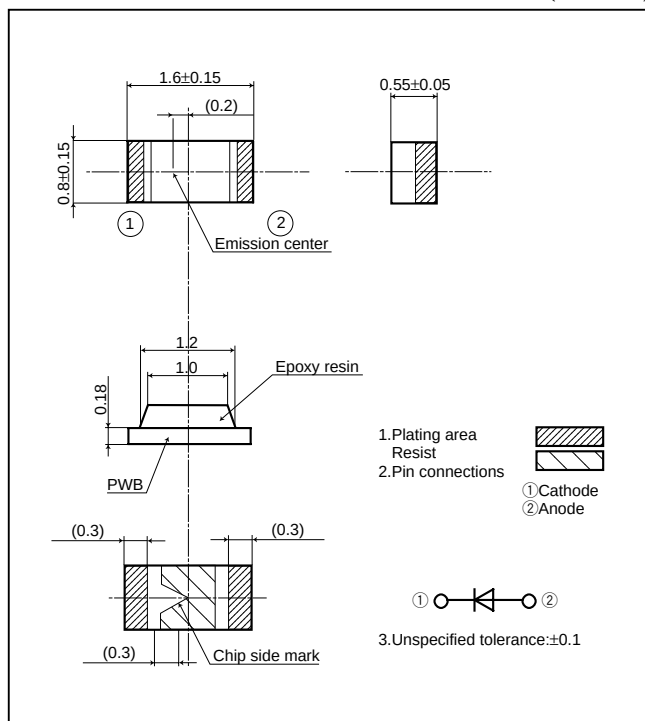


## GM1BC55200AC/GM1GC55200AC

1608 Size, 0.55mm Thickness,  
Thin Type Leadless Chip LED

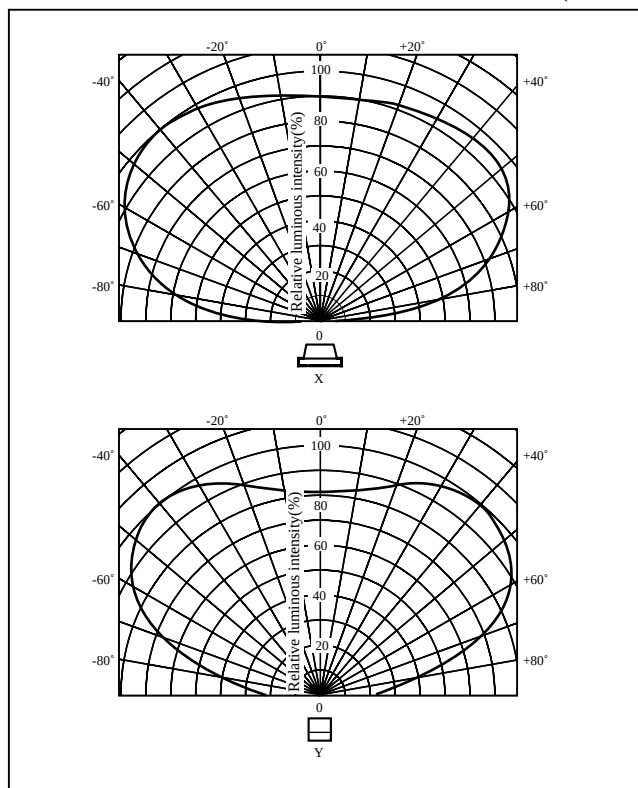
## ■ Outline Dimensions

(Unit : mm)



## ■ Directive Characteristics

(Ta=25°C)



## ■ Absolute Maximum Ratings

(Ta=25°C)

| Model No.    | Emitting color | Material | Power dissipation<br>P<br>(mW) | Forward current<br>I <sub>F</sub><br>(mA) | Peak forward current<br>I <sub>FM</sub> *1<br>(mA) | Derating factor<br>(mA/°C) |       | Reverse voltage<br>V <sub>R</sub><br>(V) | Operating temperature<br>T <sub>opr</sub><br>(°C) | Storage temperature<br>T <sub>stg</sub><br>(°C) | Soldering temperature<br>T <sub>sol</sub> *2<br>(°C) |
|--------------|----------------|----------|--------------------------------|-------------------------------------------|----------------------------------------------------|----------------------------|-------|------------------------------------------|---------------------------------------------------|-------------------------------------------------|------------------------------------------------------|
|              |                |          |                                |                                           |                                                    | DC                         | Pulse |                                          |                                                   |                                                 |                                                      |
| GM1BC55200AC | Blue           | InGaN    | 39                             | 10                                        | 20                                                 | 0.13                       | 0.27  | 5                                        | -20 to +80                                        | -40 to +100                                     | 250                                                  |
| GM1GC55200AC | Green          | InGaN    | 78                             | 20                                        | 40                                                 | 0.27                       | 0.53  | 5                                        | -20 to +80                                        | -40 to +100                                     | 250                                                  |

\*1 Duty ratio=1/10, Pulse width=0.1ms

\*2 For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on page 2.

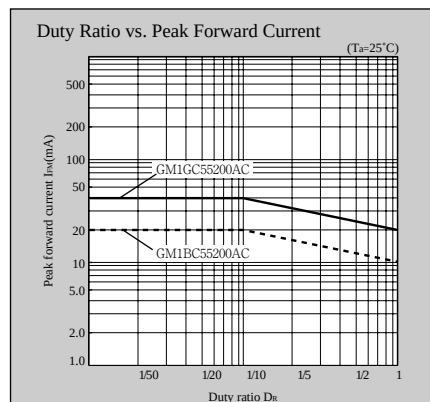
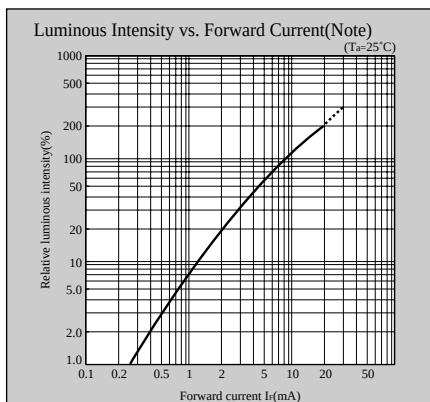
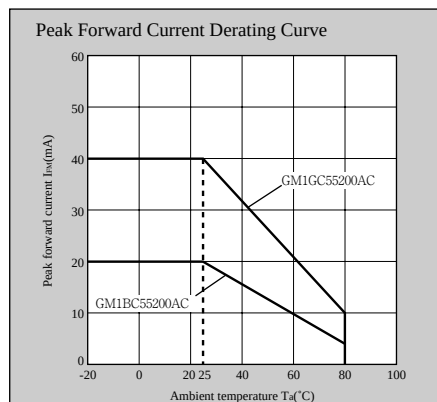
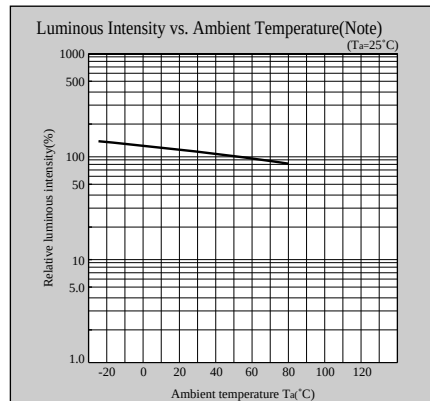
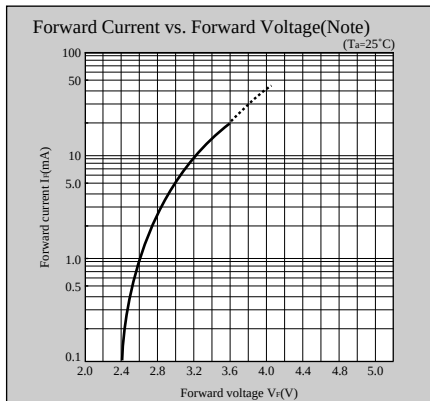
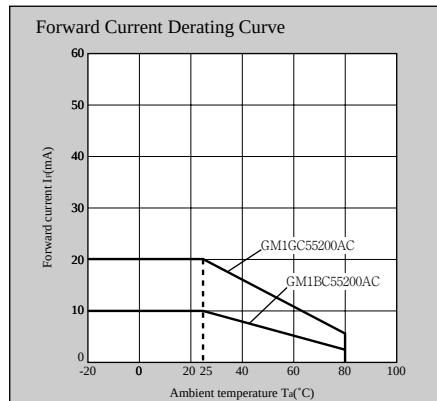
## ■ Electro-optical Characteristics

(I<sub>F</sub>=10mA, T<sub>a</sub>=25°C)

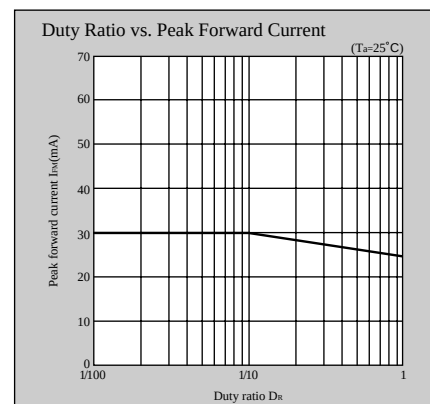
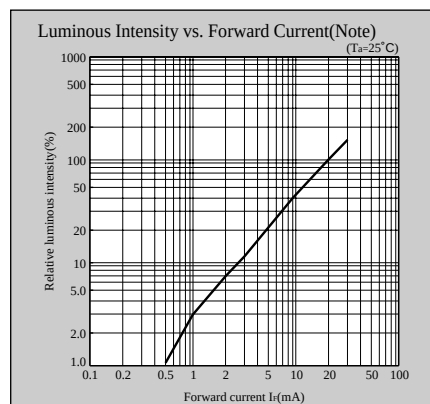
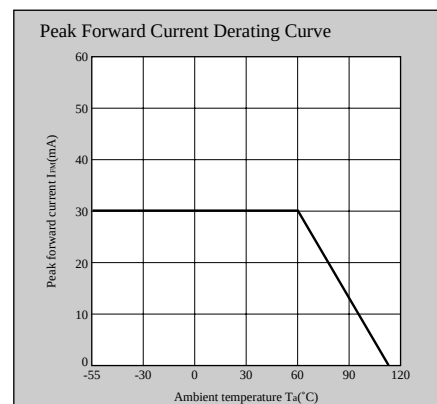
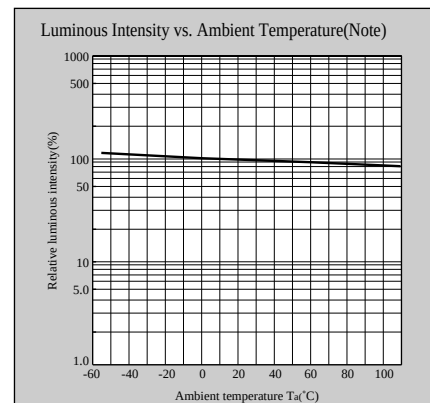
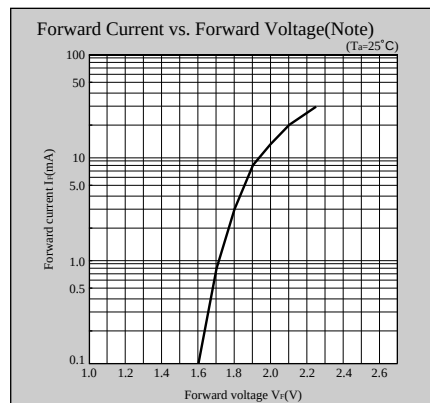
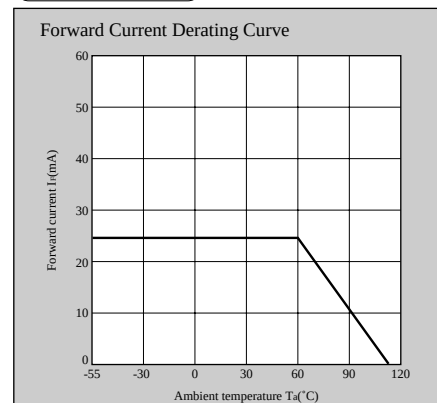
| Lens type              | Model No.    | Forward voltage<br>V <sub>F</sub> (V) |     | Peak emission wavelength<br>λ <sub>p</sub> (nm) | Dominant wavelength<br>λ <sub>d</sub> (nm) | Luminous intensity<br>I <sub>v</sub> (mcd) | Spectrum radiation bandwidth<br>Δλ(nm) | Reverse current            |                       | Page for characteristics diagrams |
|------------------------|--------------|---------------------------------------|-----|-------------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------------|----------------------------|-----------------------|-----------------------------------|
|                        |              | TYP                                   | MAX | TYP                                             | TYP                                        | TYP                                        | TYP                                    | I <sub>R</sub> (μA)<br>MAX | V <sub>R</sub><br>(V) |                                   |
| Colorless transparency | GM1BC55200AC | 3.2                                   | 3.9 | 470                                             | 472                                        | 13                                         | 26                                     | 100                        | 4                     | 50                                |
|                        | GM1GC55200AC | 3.2                                   | 3.9 | 528                                             | 530                                        | 47                                         | 36                                     | 100                        | 4                     | 50                                |

# Characteristics Diagrams

## GM1BC55200AC/GM1GC55200AC



## GM5JJ95200AE



Note) Characteristics shown in diagrams are typical values. (not assurance value)

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