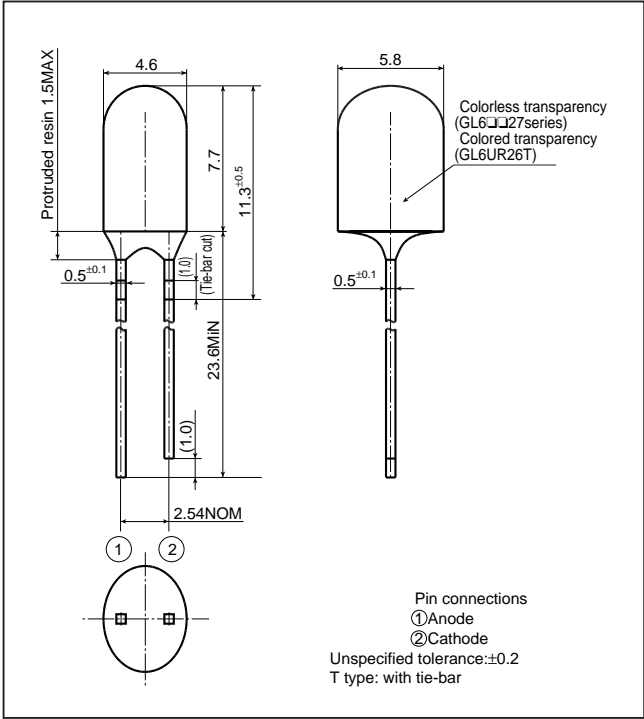


GL6UR26T/GL6□□27 series

5.8X4.6mm, Oval Type, Colored/Colorless Transparency, High-luminosity LED Lamps for Outdoor Use

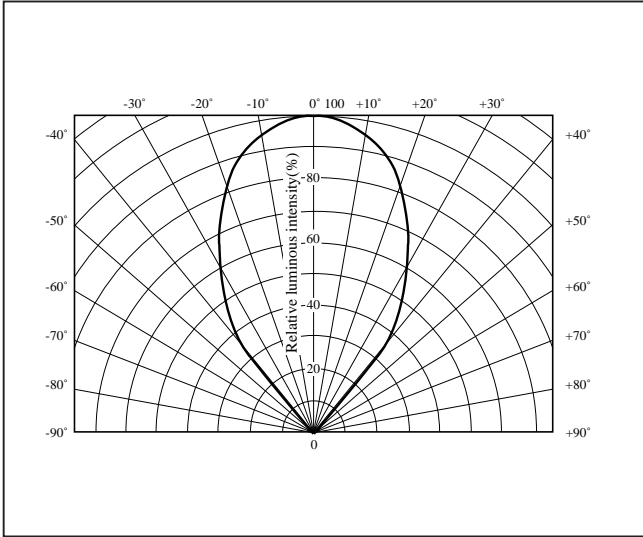
Outline Dimensions

(Unit : mm)



Radiation Diagram(Long Diameter)

(Ta=25°C)



Absolute Maximum Ratings

(Ta=25°C)

| Model No. | Radiation color          | Radiation material | Power dissipation<br>P<br>(mW) | Forward current<br>IF<br>(mA) | Peak forward current<br>IFM*1<br>(mA) | Derating factor<br>(mA/°C) |       | Reverse voltage<br>VR<br>(V) | Operating temperature<br>Topr<br>(°C) | Storage temperature<br>Tstg<br>(°C) | Soldering temperature<br>Tsol*2<br>(°C) |
|-----------|--------------------------|--------------------|--------------------------------|-------------------------------|---------------------------------------|----------------------------|-------|------------------------------|---------------------------------------|-------------------------------------|---|
|           |                          |                    |                                |                               |                                       | DC                         | Pulse |                              |                                       |                                     |   |
| GL6UR26T  | Red(Super-luminosity)    | GaAlAs on GaAlAs   | 75                             | 30                            | 50                                    | 0.40                       | 0.67  | 4                            | -25 to +85                            | -25 to +100                         | 260                                     |
| GL6UR27T  | Red(Super-luminosity)    | GaAlAs on GaAlAs   | 75                             | 30                            | 50                                    | 0.40                       | 0.67  | 4                            | -25 to +85                            | -25 to +100                         | 260                                     |
| GL6HJ27   | Orange(Super-luminosity) | AlGaInP            | 130                            | 50                            | 100                                   | 0.67                       | 1.33  | 4.1                          | -25 to +85                            | -25 to +100                         | 260                                     |
| GL6HV27   | Yellow(Super-luminosity) | AlGaInP            | 130                            | 50                            | 100                                   | 0.67                       | 1.33  | 4.1                          | -25 to +85                            | -25 to +100                         | 260                                     |

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

\*2 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

Electro-optical Characteristics

(Ta=25°C)

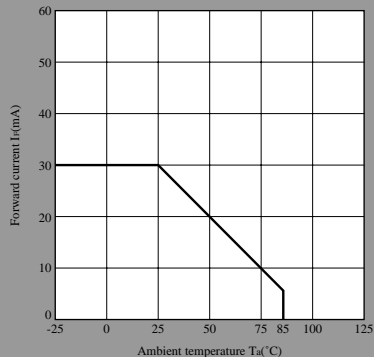
| Lens type              | Model No. | Forward voltage<br>VF(V) |     | Peak emission wavelength<br>λp(nm) |            | Luminous intensity<br>Iv(mcd) |            | Spectrum radiation bandwidth<br>Δλ(nm) |            | Reverse current<br>IR(μA) |           | Terminal capacitance<br>Ct(pF) |       | Page for characteristics diagrams |
|------------------------|-----------|--------------------------|-----|------------------------------------|------------|-------------------------------|------------|--|------------|---------------------------|-----------|--------------------------------|-------|-----------------------------------|
|                        |           | TYP                      | MAX | TYP                                | IF<br>(mA) | TYP                           | IF<br>(mA) | TYP                                    | IF<br>(mA) | MAX                       | VR<br>(V) | TYP                            | (MHz) |                                   |
| Colored transparency   | GL6UR26T  | 1.85                     | 2.5 | 660                                | 20         | 400                           | 20         | 20                                     | 20         | 100                       | 3         | 25                             | 1     | →                                 |
|                        | GL6UR27T  | 1.85                     | 2.5 | 660                                | 20         | 400                           | 20         | 20                                     | 20         | 100                       | 3         | 25                             | 1     | →                                 |
| Colorless transparency | GL6HJ27   | 1.9                      | 2.6 | 620                                | 20         | 300                           | 20         | 18                                     | 20         | 100                       | 4         | 26                             | 1     | →                                 |
|                        | GL6HV27   | 1.9                      | 2.6 | 590                                | 20         | 200                           | 20         | 13                                     | 20         | 100                       | 4         | 24                             | 1     | →                                 |

(Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

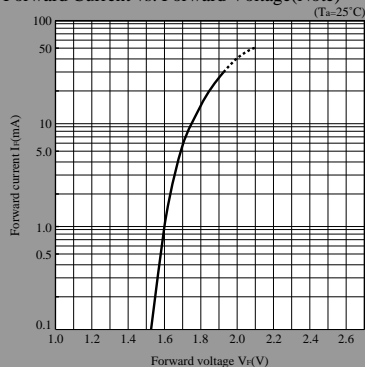
(Internet) • Data for sharp's optoelectronic/power device is provided for internet.(Address <http://www.sharp.co.jp/ecg/>)

## UR series

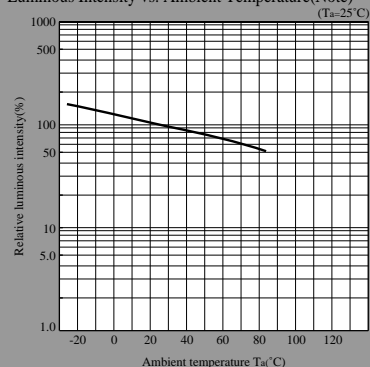
Forward Current Derating Curve



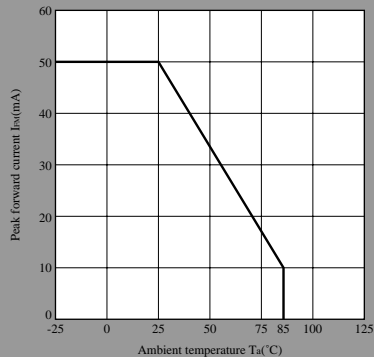
Forward Current vs. Forward Voltage(Note)



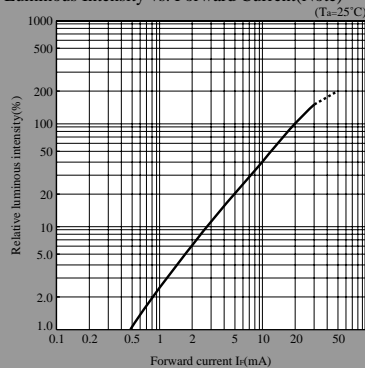
Luminous Intensity vs. Ambient Temperature(Note)



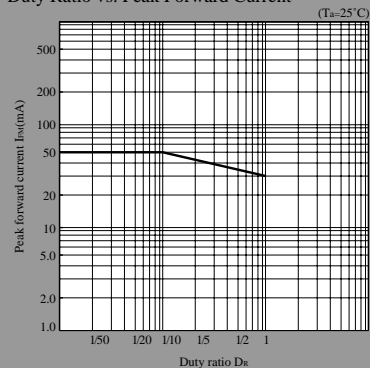
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



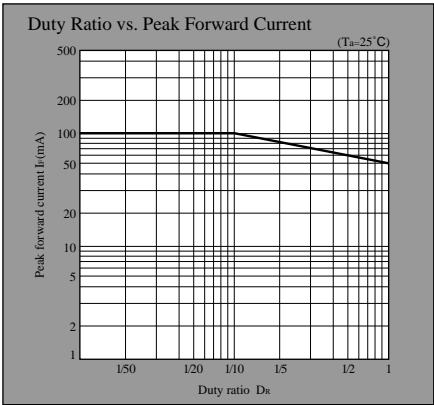
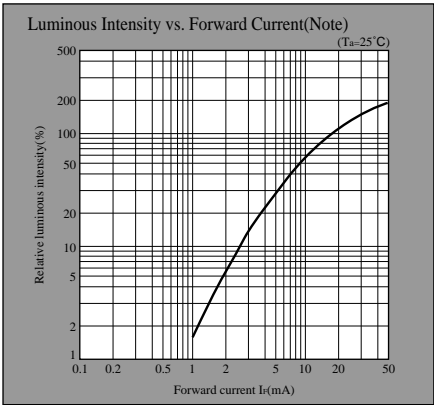
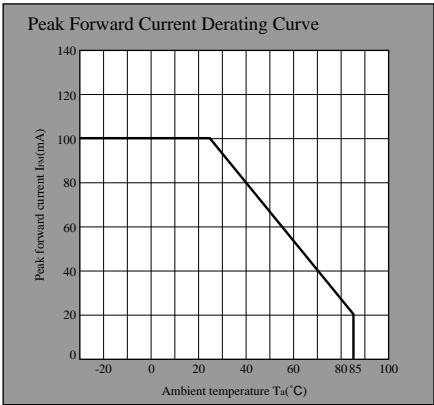
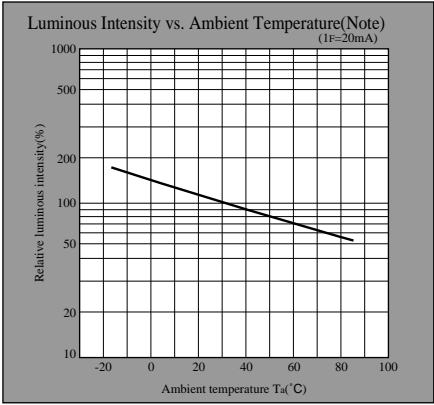
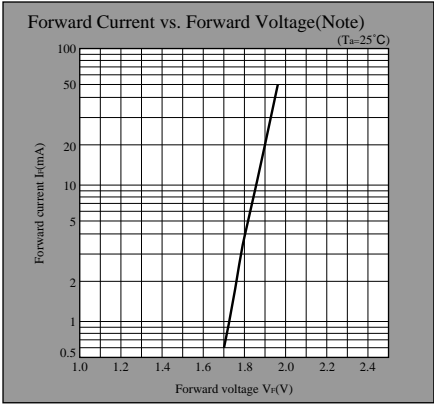
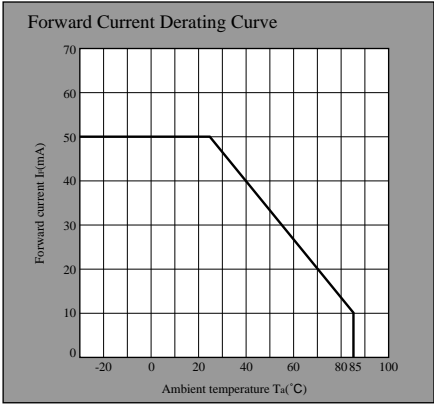
Duty Ratio vs. Peak Forward Current



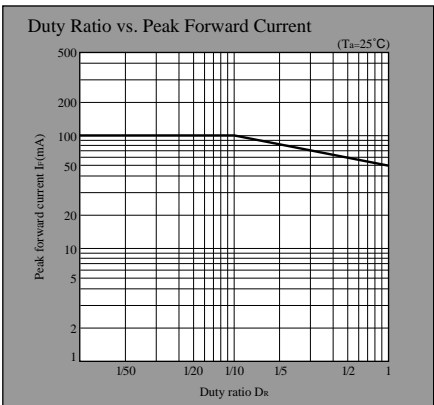
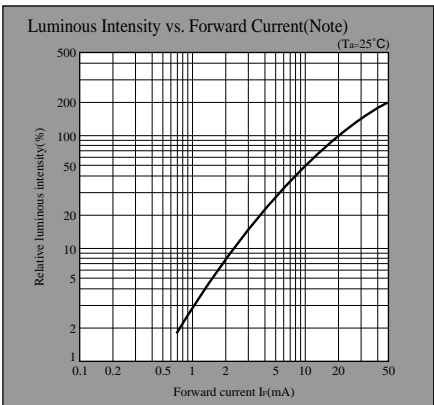
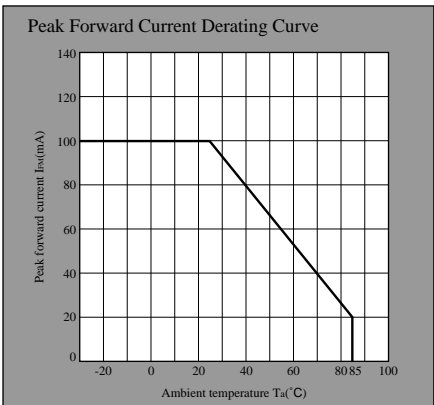
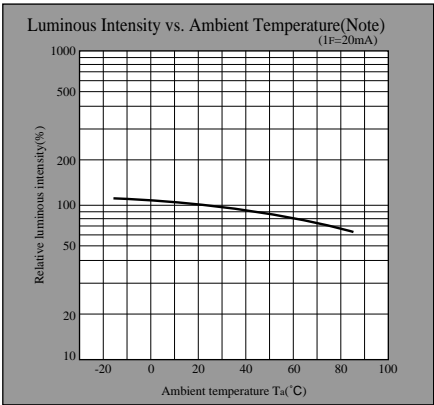
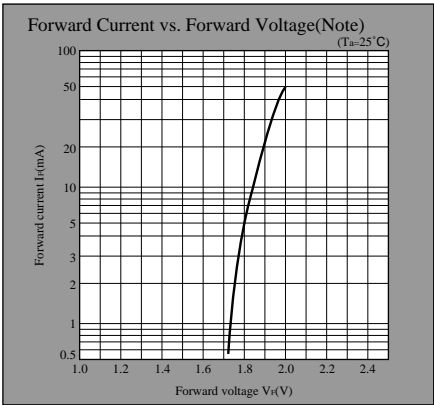
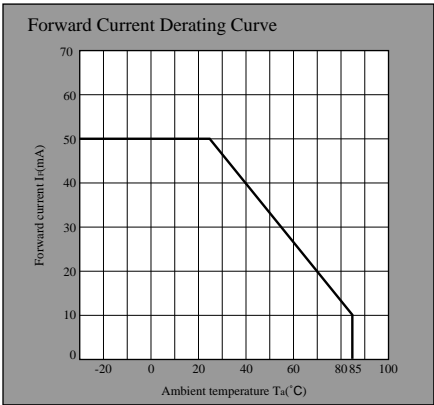
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# LED Lamp Characteristics Diagrams

## HV series



## HJ series



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

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(Internet) Data for sharp's optoelectronic/power device is provided for internet.(Address <http://www.sharp.co.jp/ecg/>)