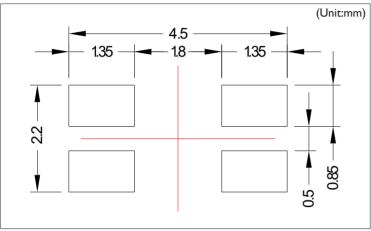


View Angle: 120 (2 1/2)
PLCC4 Type
Super Luminosity LED
For Sign/indoor Use



## Absolute Maximum Ratings

(Ta@25°C)

| Model No. *1  | Radiation color         | Radiation<br>material       | Power<br>dissipation<br>P(mW) | Forward current I <sub>F</sub> (mA) | Peak forward current I <sub>FM</sub> (mA) *2 |  |
|---------------|-------------------------|-----------------------------|-------------------------------|-------------------------------------|--|--|
| P4REAG-BF     | Orange-Red / Pure Green | AlInGaP,Sapphire / InGaN    | 90 / 108                      | 50 / 30                             | 100 / 100                                    |  |
| P43528HSTRY   | Orange-Red / Yellow     | AlInGaP,GaAs / AlInGaP,GaAs | 150 / 150                     | 50 /50                              | 100 / 100                                    |  |
| P43528JRHESPB | Deep-Red / Blue         | AlInGaP / InGaN             | 120 / 150                     | 50 / 30                             | 100 / 100                                    |  |
| P43528JRHESPG | Deep-Red / Pure Green   | e Green AlInGaP / InGaN     |                               | 50 / 30                             | 100 / 100                                    |  |

## Electro-Optical Characteristics

(IF=20mA Ta@25°C)

| Model No.     | Lens color  | Forward voltage           | Luminous<br>intensity       | Dominant<br>wavelength | Peak emission<br>wavelength | Spectral<br>helf width | Reverse current            |                    | View<br>angle |
|---------------|-------------|---------------------------|-----------------------------|------------------------|-----------------------------|------------------------|----------------------------|--------------------|---------------|
|               |             | V <sub>F</sub> (V)<br>TYP | I <sub>v</sub> (mcd)<br>TYP | λd(nm)<br>TYP          | λ <sub>p</sub> (nm)<br>TYP  | Δλ(nm)<br>TYP          | I <sub>R</sub> (μA)<br>MAX | V <sub>R</sub> (V) | Degree        |
| P4REAG-BF     | Water Clear | 2.5 / 2.8                 | 1000 / 1000                 | 625 / 525              | 635 / 515                   | 15 / 30                | 10uA                       | 5V                 | 120           |
| P43528HSTRY   | Water Clear | 2.5 / 2.5                 | 2500 / 2500                 | 625 / 590              | 635 / 593                   | 15 / 15                |                            |                    | 120           |
| P43528JRHESPB | Water Clear | 2.5 / 3.0                 | 300 / 240                   | 640 / 470              | 660 / 465                   | 15 / 20                |                            |                    | 120           |
| P43528JRHESPG | Water Clear | 2.1 / 3.1                 | 300 / 800                   | 640 / 525              | 660 / 515                   | 15 / 30                |                            |                    | 120           |

 $<sup>\</sup>ensuremath{\,\%}\xspace$  1. Reflow soldering should not be done more than two times.( led side last stage )

 $<sup>\</sup>ensuremath{\mathbb{X}}$ 2. When soldering, do not put stress on the LEDs during heating.

 $<sup>\</sup>ensuremath{\%3}$  . Hand soldering condition: 350°C for 3 Sec, but not recommended in production process.

 $<sup>\</sup>ensuremath{\mathbb{X}} 4.$  In Pick and place process avoid touching led lens.