

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|----------|---------------------------------|----------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| L-3VEYW | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFUSED | 10 | 40 | 60° |
| | YELLOW (GaAsP/GaP) | | 7 | 15 | |

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

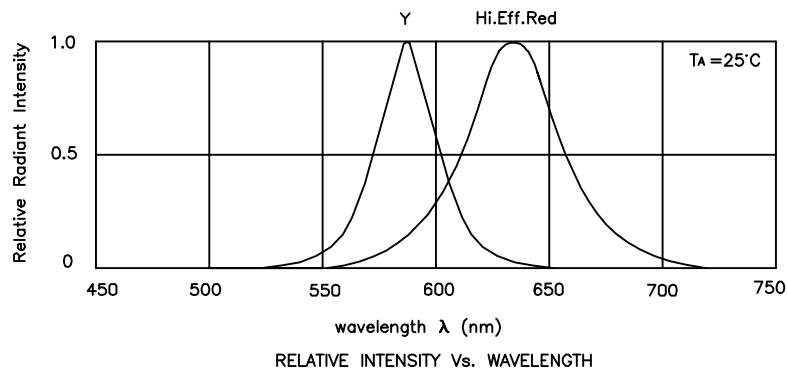
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|-------------------------------|------------|------------|-------|-----------------|
| λ_{peak} | Peak Wavelength | High Efficiency Red Yellow | 627 590 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | High Efficiency Red Yellow | 625 588 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | High Efficiency Red Yellow | 45 35 | | nm | IF=20mA |
| C | Capacitance | High Efficiency Red Yellow | 15 20 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | High Efficiency Red Yellow | 2.0 2.1 | 2.5 2.5 | V | IF=20mA |
| IR | Reverse Current | All | | 10 | uA | VR= 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | High Efficiency Red | Yellow | Units |
|-------------------------------|---------------------|--------|-------|
| Power dissipation | 105 | 105 | mW |
| DC Forward Current | 30 | 30 | mA |
| Peak Forward Current [1] | 160 | 140 | mA |
| Reverse Voltage | 5 | | V |
| Operating/storage Temperature | -40°C To +85°C | | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | | |

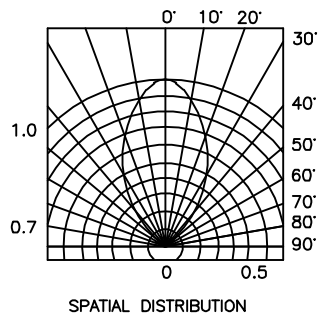
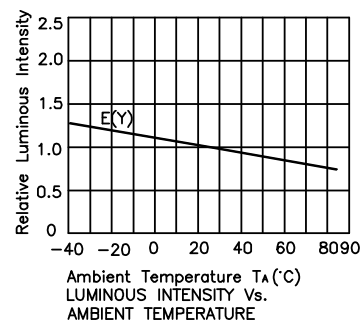
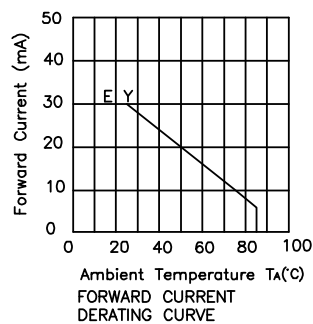
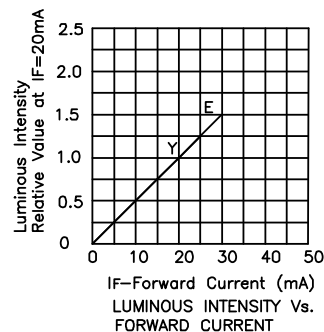
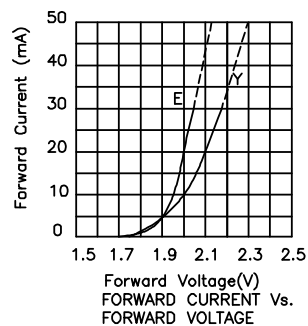
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.



High Efficiency Red / Yellow

L-3VEYW



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.