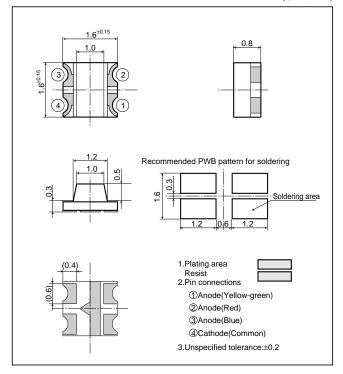
LT1W67A(Under Development)

1616 Size, 0.8mm Thickness, Compact Full Color Leadless Chip LED Device

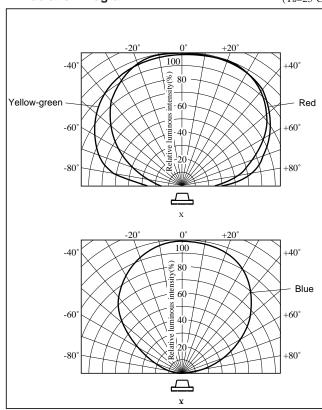
■ Outline Dimensions





■ Radiation Diagram

(Ta=25°C)



Absolute Maximum Ratings

(Ta=25°C)

| Model No. | Radiation color | Radiation material | Power dissipation Porward current P*1 IF (mW) (mA) | | Peak forward current IFM*2 (mA) | Derating factor (mA/°C) DC Pulse | | Reverse voltage V _R (V) | Operating temperature Topr (°C) | Storage temperature T_{stg} (°C) | Soldering temperature T_{sol}^{*3} (°C) |
|-----------|-----------------|--------------------|--|----|-----------------------------------|-----------------------------------|------|------------------------------------|----------------------------------|------------------------------------|---|
| LT1W67A | Blue | GaN on SiC | 200 | 30 | 100 | 0.67 | 1.33 | 5 | -30 to +85 | -40 to +100 | 260 |
| | Yellow-green | GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -30 to +85 | -40 to +100 | 260 |
| | Red | GaAsP on GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -30 to +85 | -40 to +100 | 260 |

^{*1} The value is specified under the condition that either color is lightened separately.

When all diodes are lightened simultaneously, the power dissipation of each diode should be less than 30% of the value specified in this table.

■ Electro-optical Characteristics

(Ta=25°C)

| Lens type | Model No. | Radiation color | Forward voltage V _F (V) | | Peak emission wavelength | | Luminous intensity | | Spectrum radiation bandwidth | | Reverse current | | Terminal capacitance | | Page for |
|--------------------|-----------|-----------------|------------------------------------|-----|--------------------------|-------|--------------------|------------------|------------------------------|------------------|-----------------|---------|----------------------|-------|-----------------|
| | | | | | $\lambda_p(nm)$ | I_F | Iv(mcd) | \mathbf{I}_{F} | Δλ(nm) | \mathbf{I}_{F} | Ir(µA) | V_{R} | C _t (pF) | (MII) | characteristics |
| | | | TYP | MAX | TYP | (mA) | TYP | (mA) | TYP | (mA) | MAX | (V) | TYP | (MHz) | diagrams |
| Milky diffusion | LT1W67A | Blue | 4.4 | 5.6 | 430 | 20 | 6.5 | 20 | 70 | 20 | 10 | 4 | 50 | 1 | _ |
| | | Yellow-green | 2.1 | 2.8 | 565 | 20 | 13.0 | 20 | 30 | 20 | 10 | 4 | 35 | 1 | _ |
| | | Red | 2.0 | 2.8 | 635 | 20 | 8.5 | 20 | 35 | 20 | 10 | 4 | 20 | 1 | _ |

^{*2} Duty ratio=1/10, Pulse width=0.1ms

^{*3} For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.