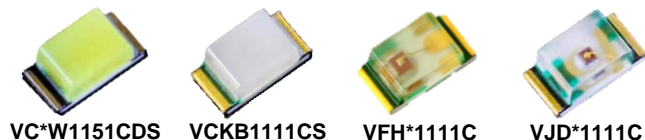




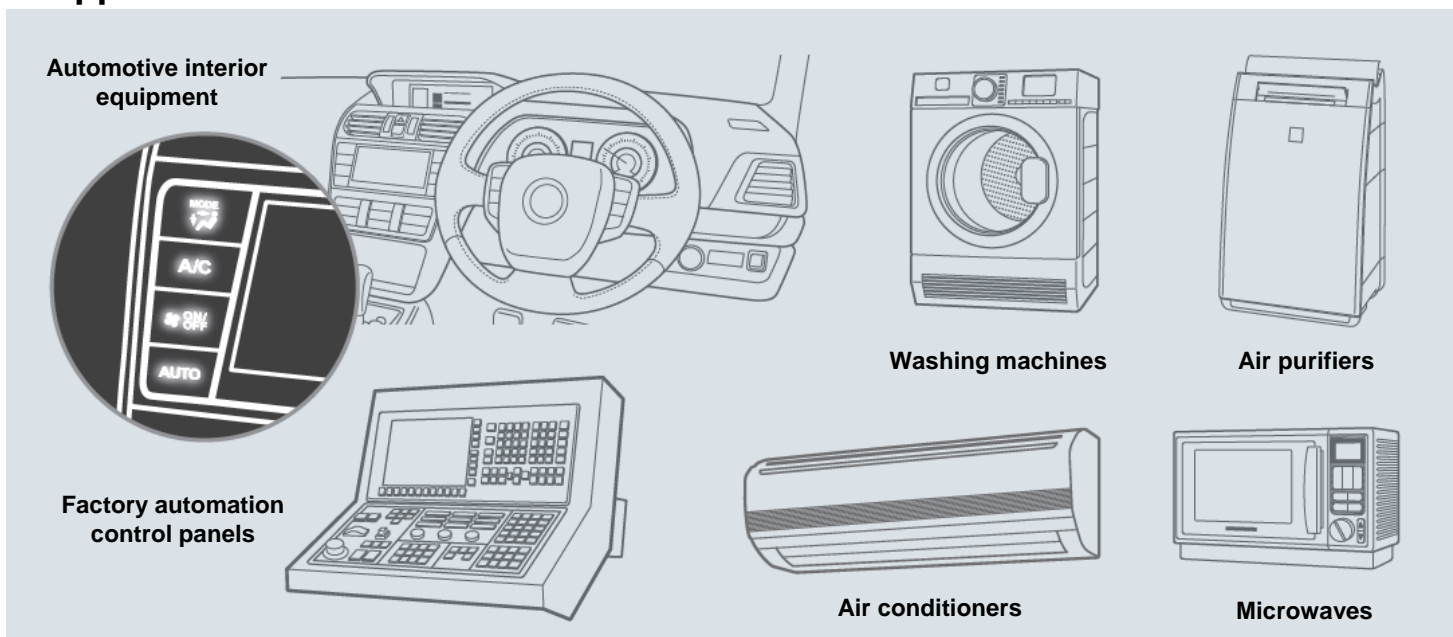
Stanley Electric's 1608-size LEDs Wide distribution angle

Compact 1608-size standard package

Enables greater design freedom
Automotive qualified



◆ Applications



◆ Features

- Lineup of 1608-size surface mount LED packages using the same solder pad
- Color, brightness, light distribution variations available
(Narrow distribution angle "1104P type" / Super narrow distribution "1116P type" also available)
- Can be used for switches backlighting and as a light source for indicators
- Can be used even in high temperature environments

◆ Lineup

| Light distribution angle | Product series | Light distribution | Color lineup | | | | | | | | |
|--------------------------|----------------|--------------------|--------------|-----------|-----------|------------|--------------|-----------|-----------|------------|-----------|
| | | | White | Blue | Green | Pure green | Yellow green | Yellow | Orange | Vermillion | Red |
| Wide | 1111C | Standard | ● VCEW | ● VCDB | ● VCDG | ● VFHL | ● VFHD | ● VFHY | ● VFHA | ● VFHV | ● VFHR |
| | | Bright | ● VCKW | ● VCKB | | | | ● VFJY | ● VFJA | ● VFJV | ● VFJR |

The above icons are for reference and may differ from the actual colors.

Specifications

| Type | Emitted color | Part name | Chromaticity coordinates ※1 | | Dominant wavelength λ_d Typ. | Luminous intensity I_v Typ. | Forward voltage V_F Typ. | Half-intensity angle 2 $\theta_{1/2}$ (9x/9y) | Sorting current I_F | Operating temperature T_{opr} | Storage temperature T_{stg} |
|--------|---------------|-------------------|-----------------------------|--------|--------------------------------------|-------------------------------|----------------------------|---|-----------------------|---------------------------------|-------------------------------|
| | | | Typ. x | Typ. y | | | | | | | |
| | | | Units | | | x | y | nm | mcd | V | deg. |
| Normal | White | VCEW1151CDS-3BZH3 | 0.281 | 0.263 | — | 120 | 3.1 | 160 / 168 | 10 | -40 to +100 | -40 to +110 |
| | Blue | VCDB1111C-5AY3B | — | — | 470 | 10 | 3.0 | 110 / 130 | 5 | -40 to +100 | -40 to +105 |
| | Green | VCDG1111C-4BY3C | — | — | 530 | 100 | 3.0 | 110 / 130 | 5 | -40 to +100 | -40 to +105 |
| | Pure green | VFHL1111C-4B23C | — | — | 562 | 18 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| | Yellow green | VFHD1111C-3B72B | — | — | 572 | 43 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| | Yellow | VFHY1111C-3BX2D | — | — | 590 | 75 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| | Orange | VFHA1111C-3BZ2C | — | — | 605 | 110 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| | Vermillion | VFHV1111C-3BY2B | — | — | 615 | 91 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| | Red | VFHR1111C-3BY2A | — | — | 626 | 91 | 1.9 | 140 / 150 | 20 | -40 to +100 | -40 to +105 |
| Bright | White | VCKW1151CDS-3C6L3 | 0.316 | 0.316 | — | 350 | 3.3 | 160 / 168 | 20 | -40 to +100 | -40 to +110 |
| | Blue | VCKB1111CS | — | — | 468 | 110 | 3.3 | 155 / 165 | 20 | -40 to +100 | -40 to +110 |
| | Yellow | VJDY1111C-4C54C | — | — | 589 | 330 | 2.1 | 140 / 140 | 20 | -40 to +100 | -40 to +105 |
| | Orange | VJDA1111C-4C72C | — | — | 606 | 470 | 2.1 | 140 / 140 | 20 | -40 to +100 | -40 to +105 |
| | Vermillion | VJDV1111C-4C74C | — | — | 616 | 470 | 2.1 | 140 / 140 | 20 | -40 to +100 | -40 to +105 |
| | Red | VJDR1111C-4C52A | — | — | 626 | 330 | 2.1 | 140 / 140 | 20 | -40 to +100 | -40 to +105 |
| | Red | VJDR1111C-4C21C | — | — | 635 | 180 | 2.1 | 140 / 140 | 20 | -40 to +100 | -40 to +105 |

※1. In accordance with CIE1931 Conditions : $T_a=25^\circ\text{C}$

The above icons are for reference and may differ from the actual colors.

Outline dimensions (Unit : mm)

| | | |
|--------------------------|---|---|
| VC*W1151CS VCKB1111CS | <p>Dimensions: 0.8, 1.6, 0.7, 0.2, 1.2, 1.1, 0.6, 0.5, 0.5. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p> | <p>はんだ付け推奨パターン Recommended soldering pad</p> <p>Dimensions: 0.8, 2.4, 0.8. Label: 基板ソリ方向 PCB bending direction.</p> |
| VCD*1111C VFH*1111C | <p>Dimensions: 0.8, 1.6, 0.7, 0.2, 1.2, 1.1, 0.6, 0.35, 0.35. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p> | |
| VJD*1111C | <p>Dimensions: 0.8, 1.6, 0.7, 0.2, 1.2, 1.1, 0.6, 0.5, 0.5. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p> | |