



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LED displays

●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Red | Red (High brightness) | Orange (High brightness) | Yellow (High brightness) | Green | Blue | Unit |
|-----------------------|----------------------|---------------|-----------------------|--------------------------|--------------------------|---------------|---------------|------|
| | | LA-301VB / VL | LA-301AB / AL | LA-301EB / EL | LA-301XB / XL | LA-301MB / ML | LA-301BB / BL | |
| Power dissipation | P _D | 320 | 520 | 520 | 520 | 480 | 336 | mW |
| Power dissipation | P _D / seg | 40 | 65 | 65 | 65 | 60 | 42 | mW |
| Forward current | I _F | 15 | 25 | 25 | 25 | 20 | 10 | mA |
| Peak forward current | I _{FP} | 60 *1 | 50 *2 | 50 *2 | 50 *2 | 60 *1 | 50 *2 | mA |
| Reverse voltage | V _R | 5 | 5 | 5 | 5 | 5 | 5 | V |
| Operating temperature | T _{opr} | -25 to +75 | | | | | | °C |
| Storage temperature | T _{stg} | -30 to +85 | | | | | | °C |

*1 Pulse width 1ms Duty 1 / 5

*2 Pulse width 0.1ms Duty 1 / 10

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Conditions | Red | | Red (High brightness) | | Orange (High brightness) | | Yellow (High brightness) | | Green | | Blue | | Unit |
|--------------------------|----------------|----------------------|------|------|-----------------------|------|--------------------------|------|--------------------------|------|-------|------|------|------|------|
| | | | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | |
| Forward voltage | V _F | I _F =10mA | 2.0 | 2.8 | 2.05* | 2.6* | 2.05* | 2.6* | 2.05* | 2.6* | 2.1 | 2.8 | 3.6 | 4.2 | V |
| Reverse current | I _R | V _R =3V | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | μA |
| Peak wavelength | λ _P | I _F =10mA | 650 | - | 626* | - | 610* | - | 589* | - | 563 | - | 470 | - | nm |
| Spectral line half width | Δλ | I _F =10mA | 40 | - | 18 | - | 17 | - | 15 | - | 40 | - | 26 | - | nm |

©The products are not radiations resistant.

* Shows the number on the condition of I_F=20mA.

●Luminous intensity

| Color | λ _P (nm) | Type | Min. | Typ. | Unit |
|--------------------------|---------------------|----------|------|------|------|
| Red | 650 | LA-301VB | 3.6 | 10 | mcd |
| | | LA-301VL | | | |
| Red (High brightness) | 626 | LA-301AB | 36 | 90 | mcd |
| | | LA-301AL | | | |
| Orange (High brightness) | 610 | LA-301EB | 36 | 90 | mcd |
| | | LA-301EL | | | |
| Yellow (High brightness) | 589 | LA-301XB | 36 | 90 | mcd |
| | | LA-301XL | | | |
| Green | 563 | LA-301MB | 3.6 | 10 | mcd |
| | | LA-301ML | | | |
| Blue | 470 | LA-301BB | 14 | 56 | mcd |
| | | LA-301BL | | | |

© A condition of measurement is I_F=10mA.