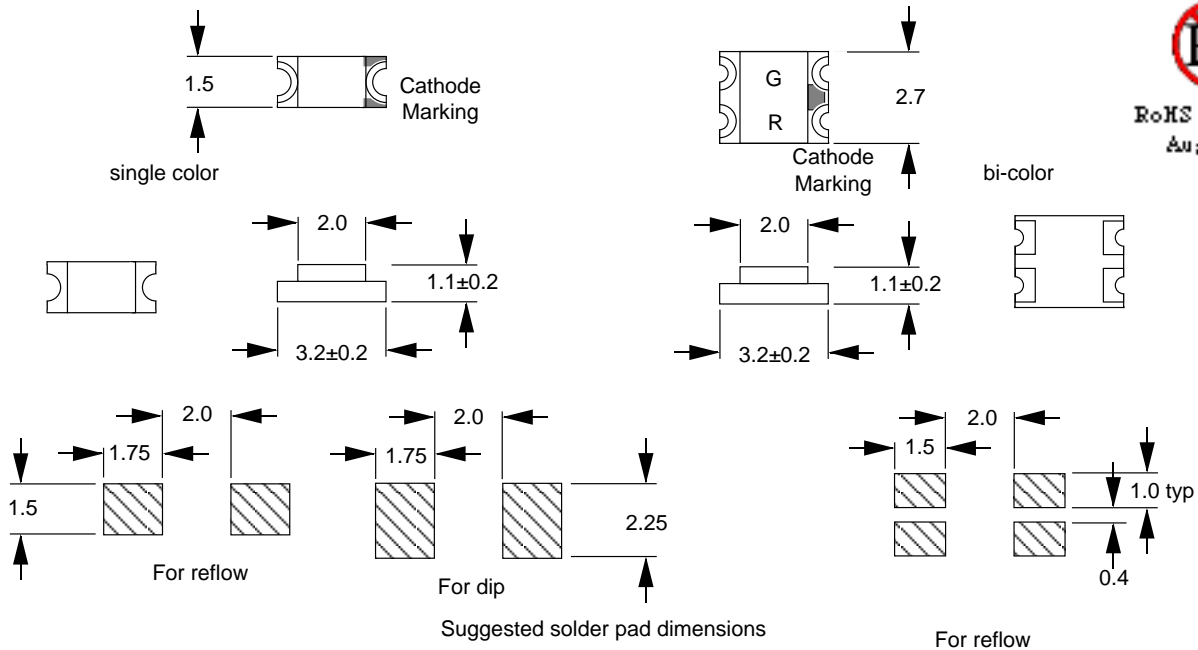


Surface Mount LED, 0158 Series “1206” Package



The 0158 series lamps are miniature chip type designed for surface mounting. These lamps are of the so-called 1206 size, measuring approximately 1.6x3.2 mm (single color) and 2.7x3.2 mm (bi-color). They are available in EIA481 t&r packaging with 2000 pcs per reel.



GENERAL INFORMATION

| | |
|------------------------------|----------------------|
| Operating Temperature Range | -40 °C to +85 °C |
| Storage Temperature Range | -40 °C to +90 °C |
| Reflow Soldering Temperature | 260 °C for 5 sec max |

APPLICATION INFORMATION (ALL RATINGS AT 25 °C AMBIENT)

| Part No. | Emitted Color | Peak | $\Delta\lambda$ | Absolute Maximum Ratings | | | | | E/O Characteristics | | | | | |
|------------|---------------|-----------|-----------------|--------------------------|---------|-----|-----|----|----------------------|-----------------------|-----|-----------------------|-----|-----------------|
| | | λ | | Pd | If (mA) | | Ir | Vr | Vf (V) @ If=20mA | | | Iv (mcd) @ If=20mA | | $2\theta_{1/2}$ |
| | | (nm) | | | (mW) | dc | | | 1/10 duty @ 1 kHz | @ Vr=5V (μ A) | (V) | Min | Typ | |
| ISRC0158 | Red | 660 | 20 | 100 | 30 | 200 | 100 | 5 | - | 1.7 | 2.4 | 7 | 18 | 140 |
| IVRC0158 | Red | 640 | 45 | 70 | 25 | 90 | 100 | 5 | - | 2.0 | 2.8 | 4 | 9 | 140 |
| IVYC0158 | Yellow | 585 | 35 | 70 | 20 | 90 | 100 | 5 | - | 2.0 | 2.8 | 4 | 9 | 140 |
| IVGC0158 | Green | 570 | 30 | 70 | 25 | 90 | 100 | 5 | - | 2.1 | 2.8 | 7 | 13 | 140 |
| IURC0158* | Red | 660 | 20 | 100 | 30 | 200 | 100 | 5 | - | 1.7 | 2.4 | 22 | 38 | 140 |
| IUYC0158 | Yellow | 590 | 15 | 70 | 30 | 160 | 100 | 5 | - | 2.1 | 2.8 | 27 | 47 | 140 |
| IUGC0158 | Green | 570 | 30 | 70 | 30 | 160 | 100 | 5 | - | 2.1 | 2.8 | 8 | 15 | 140 |
| IVRD0158 | Red | 640 | 45 | 70 | 25 | 90 | 100 | 5 | - | 2.0 | 2.8 | 3 | 7 | 140 |
| IVYD0158 | Yellow | 585 | 35 | 70 | 20 | 90 | 100 | 5 | - | 2.0 | 2.8 | 6 | 9 | 140 |
| IVGD0158 | Green | 570 | 30 | 70 | 25 | 90 | 100 | 5 | - | 2.1 | 2.8 | 4 | 7 | 140 |
| IVRVGC0158 | Red | 640 | 45 | 70 | 25 | 90 | 100 | 5 | - | 2.0 | 2.8 | 4 | 9 | 140 |
| | Green | 570 | 30 | 70 | 25 | 90 | 100 | 5 | - | 2.1 | 2.8 | 7 | 13 | 140 |
| ISRVGC0158 | Red | 660 | 20 | 100 | 30 | 200 | 100 | 5 | - | 1.8 | 2.4 | 10 | 18 | 140 |
| | Green | 570 | 30 | 70 | 25 | 90 | 100 | 5 | - | 2.1 | 2.8 | 7 | 13 | 140 |
| IUBC0158 | Blue | 428 | 65 | 140 | 30 | 70 | 50 | 5 | - | 3.8 | 4.5 | 14 | 18 | 140 |
| IUBC0158-7 | Blue | 468 | 26 | 140 | 30 | 70 | 50 | 5 | - | 3.5 | 4.0 | 18 | 23 | 140 |

Specifications subject to change without notice. Dimensions are in mm±0.3 unless stated otherwise. *reversed polarity

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