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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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



5mm (T1 ³⁄₄) Package Discrete LED GREEN, Ultra Bright



5UGC-<mark>X</mark>

- Industry Standard 5mm (T1 ³/₄) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- Up to 600 mcd Luminous Intensity at 20 mA
- Ideal for Back Lighting, Status Indication, and Display

Bivar 5mm T1 ³/₄ Package Ultra Bright LED is ideal for those applications where intensive ambient lighting exists such as Back Lighting, Signage, and Sunlight Readable applications. Bivar offers water clear LED lens for maximum light output. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies and the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends.

| Part Number | Material | Emitted Color | Peak. Wavelength λp(nm) TYP. | Lens Appearance | Viewing Angle | | |
|-------------|----------|---------------|---------------------------------|-----------------|---------------|--|--|
| 5UGC-F | AlGaInP | GREEN | 570nm | Water Clear | 35° | | |
| 5UGC | AlGainF | GREEN | 570111 | Water Clear | 35° | | |

Part Number Designation





5mm (T1 ³/₄) Package Discrete LED **GREEN**, Ultra Bright



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Outline Dimensions



 Outline Drawings Notes:

 1. All dimensions are in inches [millimeters].

 2. Standard tolerance: ±0.010" unless otherwise noted.

 3. Tolerance of overall epoxy outline: ±0.020" unless otherwise noted.

 4. Epoxy meniscus may extend to 0.060" max.



Absolute Maximum Ratings

 $T_A = 25^{\circ}C$ unless otherwise noted

| Power Dissipation | 100 mW |
|--|--------------|
| Forward Current (DC) | 30 mA |
| Peak Forward Current ¹ | 150 mA |
| Reverse Voltage | 5 V |
| Operating Temperature Range | -25 ~ +85°C |
| Storage Temperature Range | -30 ~ +100°C |
| Lead Soldering Temperature (3 mm from the base of the epoxy bulb) 2 | 260°C |

Notes: 1. 10% Duty Cycle, Pulse Width \leq 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ unless otherwise noted

| Part Number | Forward Voltage (V) ¹ | | Recommend Forward Current (mA) | | Reverse Current (µA) | Dominant Wavelength (nm) ² | | Luminous Intensity Iv (mcd) | | | Viewing Angle 2 O ½ (deg) | | | |
|-------------|-------------------------------------|---------|--------------------------------------|-----|----------------------------|--|-----|--------------------------------|-----|-----|------------------------------------|-----|-----|-----|
| | MIN | TYP | MAX | MIN | TYP | MAX | MAX | MIN | TYP | MAX | MIN | TYP | MAX | TYP |
| 5UGC-F | / | 2.1 2.4 | 24 | , | 20 | , | 100 | / | / | / | / | 400 | / | 35 |
| 5UGC | | | / | 20 | 1 | 100 | / | / | / | / | 600 | / | 35 | |

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



Typical Electrical / Optical Characteristics

 $T_A = 25^{\circ}C$ unless otherwise noted







Fig. 3 Forward Current vs. Forward Voltage





Fig. 2 Directivity Radiation Diagram



Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA



Fig. 6 Relative Luminous Intensity vs. Temperature



Recommended Soldering Conditions



Packaging and Labeling Plan

