

# HLMP6600AGR Datasheet



|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | HLMP6600AGR-DG  |
| Manufacturer                 | <a href="#">onsemi</a>                                  |
| Manufacturer Product Number  | HLMP6600AGR   |
| Description                  | LED RED DIFF SUBMINI T-3/4 SMD                          |
| Detailed Description         | Red 626nm LED Indication - Discrete 5V 2-SMD, Gull Wing |

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## Purchase and inquiry

Manufacturer Product Number:

HLMP6600AGR

Series:

-

Color:

Red

Lens Color:

Red

Millicandela Rating:

5mcd

Lens Size:

1.78mm Dia

Current - Test:

9.6mA

Mounting Type:

Surface Mount

Wavelength - Peak:

635nm

Package / Case:

2-SMD, Gull Wing

Size / Dimension:

2.20mm L x 2.10mm W

Base Product Number:

HLMP66

Manufacturer:

onsemi

Product Status:

Obsolete

Configuration:

Standard

Lens Transparency:

Diffused

Lens Style:

Round with Domed Top

Voltage - Forward (Vf) (Typ):

5V

Viewing Angle:

90°

Wavelength - Dominant:

626nm

Features:

-

Supplier Device Package:

Subminiature T-3/4

Height (Max):

3.02mm

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

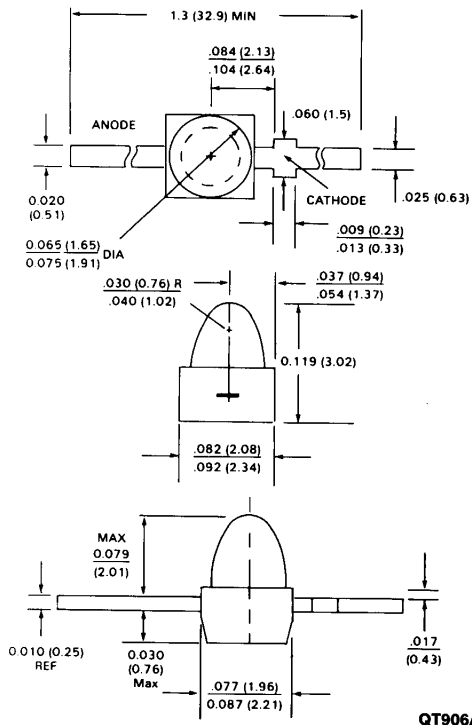
8541.41.0000



**SUBMINIATURE T-3/4  
5 - VOLT RESISTOR LAMPS**

**HIGH EFFICIENCY RED HLMP-6600/20  
YELLOW HLMP-6700/20  
HIGH EFFICIENCY GREEN HLMP-6800/20**

**PACKAGE DIMENSIONS**



QT906A

- NOTES:  
1. ALL DIMENSIONS IN INCHES (mm)  
2. TOLERANCE ARE ±.010 INCH UNLESS OTHERWISE SPECIFIED

**DESCRIPTION**

These T-3/4 square based LEDs contain an integral resistor which is in series with the emitter chip. This construction allows for the operation in circuits with 5V supply voltage; without the use of an external resistor. Color tinted, diffused epoxy packages are used for these lamps.

**FEATURES**

- Integral current limiting resistor.
- TTL compatible
- Wide viewing angle
- Solid-state reliability
- SMT lead formings and T&R available

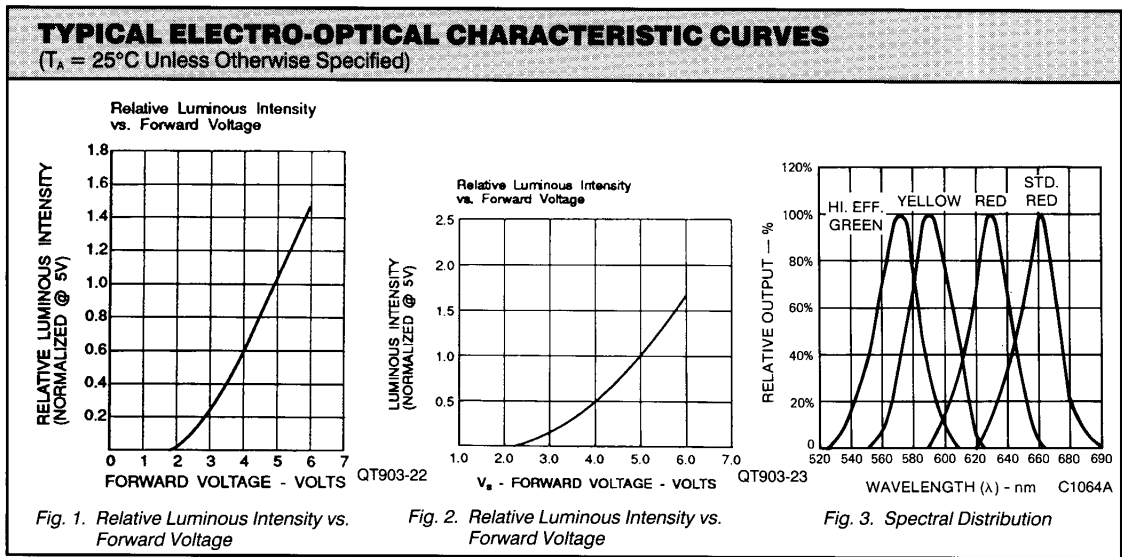
| <b>ABSOLUTE MAXIMUM RATING</b> (T <sub>A</sub> = 25°C unless otherwise specified) |     |        |       |                |
|---|-----|--------|-------|----------------|
| PARAMETER   | HER | YELLOW | GREEN | UNITS          |
| Power dissipation .....   | 135 | 85     | 135   | mW             |
| DC forward voltage .....  | 6   | 6      | 6     | V              |
| Lead soldering time at .....  | 3   | 3      | 3     | Sec            |
| Surface mount reflow soldering  |     |        |       |                |
| Convective IR at 235°C .....  |     |        |       | 90 Seconds     |
| Vapour phase at 213°C .....   |     |        |       | 3 Minutes      |
| Operating temperature range .....   |     |        |       | -40°C to 85°   |
| Storage temperature range .....   |     |        |       | -55°C to 100°C |

| <b>TYPICAL THERMAL CHARACTERISTICS</b> |         |
|--|---------|
| Thermal resistance $\theta_{JA}$ ..... | 120°C/W |



**SUBMINIATURE T-3/4  
5 - VOLT RESISTOR LAMPS**

| <b>ELECTRO-OPTICAL CHARACTERISTICS</b> ( $T_A = 25^\circ\text{C}$ Unless Otherwise Specified) |      |      |      |        |                            |
|---|------|------|------|--------|----------------------------|
| PARAMETER   | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS            |
| Forward current - $I_f$   |      |      |      |        |                            |
| HLMP-6600/6700/6800   |      | 9.6  | 13.0 | mA     | $V_f = 5\text{ V}$         |
| HLMP-6620/6720/6820   |      | 3.5  | 5.0  | mA     | $V_f = 5\text{ V}$         |
| Reverse voltage - $V_R$   | 5    | 30   |      | V      | $I_f = 100\mu\text{A}$     |
| Viewing angle - $2\theta$   |      | 90   |      | Degree |                            |
| Luminous intensity - $I_v$  |      |      |      |        |                            |
| HLMP-6600/6700/6800   | 1.3  | 5.0  |      | mcd    | $V_f = 5\text{ V}$         |
| HLMP-6620/6720/6820   | 0.8  | 2.0  |      | mcd    | $V_f = 5\text{ V}$         |
| Peak wavelength   |      |      |      |        |                            |
| HLMP-6600/20  |      | 635  |      | nm     |                            |
| HLMP-6700/20  |      | 583  |      | nm     |                            |
| HLMP-6800/20  |      | 565  |      | nm     |                            |
| Dominant wavelength   |      |      |      |        |                            |
| HLMP-6600/20  |      | 626  |      | nm     |                            |
| HLMP-6700/20  |      | 585  |      | nm     |                            |
| HLMP-6800/20  |      | 569  |      | nm     |                            |
| Spectral line half-width  |      |      |      |        |                            |
| HLMP-6600/20  |      | 40   |      | nm     |                            |
| HLMP-6700/20  |      | 36   |      | nm     |                            |
| HLMP-6800/20  |      | 28   |      | nm     |                            |
| Capacitance - C   |      |      |      |        |                            |
| HLMP-6600/20  |      | 11   |      | pF     | $V_f = , F = 1\text{ MHz}$ |
| HLMP-6700/20  |      | 15   |      | pF     | $V_f = , F = 1\text{ MHz}$ |
| HLMP-6800/20  |      | 18   |      | pF     | $V_f = , F = 1\text{ MHz}$ |





SUBMINIATURE T-3/4  
5 - VOLT RESISTOR LAMPS

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