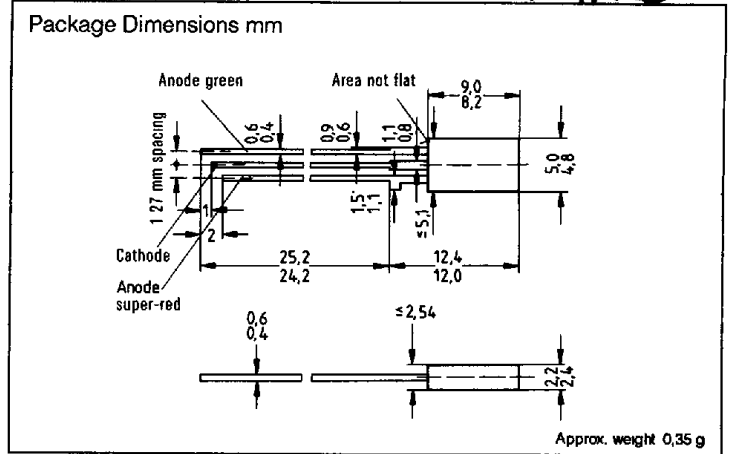
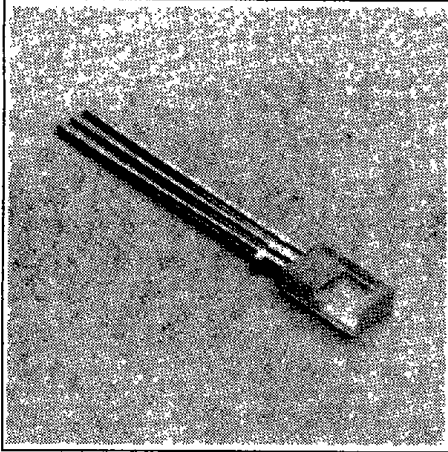


SIEMENS

LU B370

**TWO-COLOR, RED AND GREEN
RECTANGULAR LED LAMP**

T-41-25



FEATURES

- Rectangular Shape
- Colorless Clear, Partly Diffused Lens
- Two-Color Operation, Red and Green
- Three Leads, One of which is Common Cathode
- Minimum Lead Length 1"
- .05" Lead Spacing

DESCRIPTION

The LU B370 series has a colorless case with rectangular, luminous area and diffuser layer. Two chips (green and red) enable the use as optical indicator with two functions.

Because of its very low current consumption and hence low inherent heating as well as high vibration resistance and long service life, this LED is suitable for applications where signal lamps are not or only inadequately useful. Moreover, the LED can be driven by TTL ICs.

Maximum Ratings

| | | |
|--|-------|-----------------|
| Reverse Voltage (V_R) | | 5 V |
| Forward Current* (I_F) | | 45 mA |
| Surge Current* (I_{FS} , $t \leq 10 \mu s$) | | 1 A |
| Storage Temperature (T_{STO}) | | -55°C to +100°C |
| Junction Temperature (T_J) | | 100°C |
| Power Dissipation (P_{TOT}) $T_A=25^\circ C$ | | 150 mW |
| Thermal Resistance Junction-to-Air (R_{THA}) | | 500 KW |

Characteristics ($T_A=25^\circ C$)

| Parameter | Symbol | Red | Green | Unit |
|--|------------------|--------------------|--------------------|----------------|
| Wavelength of the Emitted Light | λ_{PEAK} | 635 | 565 | nm |
| Dominant Wavelength | λ_{DOM} | 628 | 567 | nm |
| Viewing Angle (Limits for 50% of Luminous Intensity I_v , lateral emission of light screened) | ϕ | 100 | 100 | Deg. |
| Forward Voltage ($I_F=10$ mA) | V_F | 2.0 (≤ 2.6) | 2.0 (≤ 2.6) | V |
| Reverse Current ($V_R=5$ V) | I_R | 0.01 (≤ 10) | 0.01 (≤ 10) | μA |
| Rise Time | t_r | 300 | 450 | ns |
| Fall Time | t_f | 150 | 200 | ns |
| Capacitance ($V_R=0$ V, $f=1$ MHz) | C_0 | 12 | 15 | pF |
| Luminous Intensity | | | | |
| Part Number | Min. | Max. | Unit | Test Condition |
| LU B370-EJ | 0.63 | 8 | mcd | 10 mA |
| LU B370-FK | 1 | 12.5 | mcd | 10 mA |
| LU B370-GK | 1.6 | 12.5 | mcd | 10 mA |

See graph numbers 1, 2G, 3A, 4A, 5A, 6A, 7A, 8, 9, 10 on pages 42 - 48.

* The ratings indicated for the forward current I_F or the surge current I_{FS} respectively, are maximum ratings of the component. If both chips are operated simultaneously, the sum of the forward current ratings is not allowed to exceed the indicated maximum value.