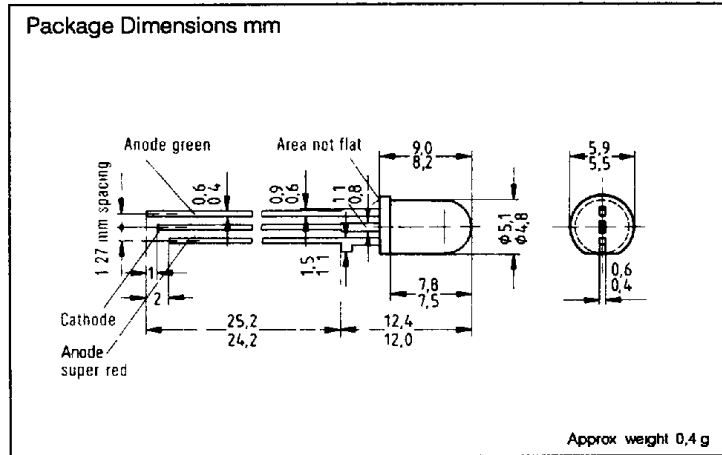
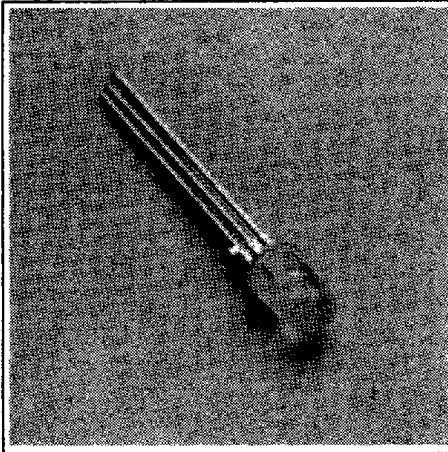


**SIEMENS**

**LU 5350**

**TWO-COLOR, RED AND GREEN  
T<sup>1</sup>/<sub>4</sub> LED LAMP**

T-41-25



LED Lamps

**FEATURES**

- T<sup>1</sup>/<sub>4</sub> Package Size
- Colorless Clear Partly Diffused Lens
- Two-Color Operation, Red and Green
- Three Leads, Middle Lead is Common Cathode
- Minimum Lead Length 1"
- .05" Lead Spacing

**DESCRIPTION**

The LU 5350 series has a colorless round, 5 mm case with diffuser layer. Two chips (green and red) allow 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 <sub>R</sub> ) .....	5 V
Forward Current* (I <sub>F</sub> ) .....	45 mA
Surge Current* (I <sub>FS</sub> ), t ≤ 10 μs .....	1 A
Storage Temperature (T <sub>STG</sub> ) .....	-55°C to +100°C
Junction Temperature (T <sub>J</sub> ) .....	100°C
Power Dissipation (P <sub>tot</sub> ) T <sub>A</sub> =25°C .....	150 mW
Thermal Resistance (R <sub>thJA</sub> ) Junction-to-Air .....	500 K/W

**Characteristics (T<sub>A</sub>=25°C)**

Parameter	Symbol	Red	Green	Unit
Wavelength of the Emitted Light	λ <sub>PEAK</sub>	635	565	nm
Dominant Wavelength	λ <sub>DOM</sub>	628	567	nm
Viewing Angle (Limits for 50% of Luminous Intensity I <sub>v</sub> )	φ	50	50	Deg.
Forward Voltage (I <sub>F</sub> =10 mA)	V <sub>F</sub>	2.0 (≤2.6)	2.0 (≤2.6)	
Reverse Current (V <sub>R</sub> =5 V)	I <sub>R</sub>	0.01 (≤10)	0.01 (≤10)	μA
Rise Time	t <sub>r</sub>	300	450	ns
Fall Time	t <sub>f</sub>	150	200	ns
Capacitance (V <sub>R</sub> =0 V, f=1 MHz)	C <sub>o</sub>	12	15	pF
Luminous Intensity				
Part Number	Min.	Max.	Unit	Test Condition
LU 5350-GL	1.6	20	mcd	10 mA
LU 5350-HM	2.5	32	mcd	10 mA
LU 5350-JM	4	32	mcd	10 mA

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

\* The ratings indicated for the forward current I<sub>F</sub> or the surge current I<sub>FS</sub>, 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.