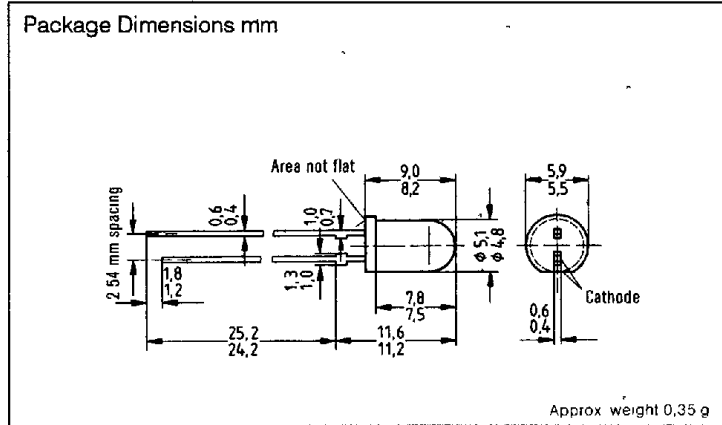
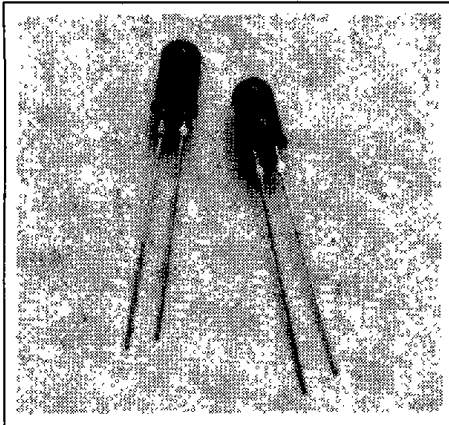


**SIEMENS**

T-41-21  
**RED LR 5360**  
**SUPER-RED LS 5360**  
**YELLOW LY 5360**  
**GREEN LG 5360**

**T1<sup>3</sup>/<sub>4</sub> (5 mm) LED LAMP**



LED Lamps

**FEATURES**

- High Light Output
- Diffused Lens
- Wide Viewing Angle 70°
- With Standoffs
- T1<sup>3</sup>/<sub>4</sub> (5 mm) Package Size
- 1" Lead Length
- V/C Compatible

**DESCRIPTION**

The LR 5360 is a standard red gallium arsenide phosphide (GaAsP) LED lamp. The LS 5360 super-red and LY 5360 yellow are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 5360 green is a gallium phosphide (GaP) lamp. All have a diffused plastic lens which emits a full flooded intense light.

**Maximum Ratings**

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

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

| Parameter  | Symbol           | LR 5360<br>Red     | LS 5360<br>Super-Red | LY 5360<br>Yellow  | LG 5360<br>Green   | Unit    |
|--|------------------|--------------------|----------------------|--------------------|--------------------|---------|
| Wavelength at  |                  |                    |                      |                    |                    |         |
| Peak Emission  | $\lambda_{PEAK}$ | 660                | 635                  | 586                | 565                | nm      |
| Dominant Wavelength  | $\lambda_{DOM}$  | 645                | 628                  | 590                | 567                | nm      |
| Viewing Angle<br>(Limits for 50% of Luminous Intensity $I_V$ ) |                  |                    |                      |                    |                    |         |
|  | $\phi$           | 50                 | 50                   | 50                 | 50                 | Deg     |
| Forward Voltage<br>( $I_F=10$ mA)                              |                  |                    |                      |                    |                    |         |
|  | $V_F$            | 1.6 ( $\leq 2.0$ ) | 2.0 ( $\leq 2.6$ )   | 2.0 ( $\leq 2.6$ ) | 2.0 ( $\leq 2.6$ ) | V       |
| Reverse Current ( $V_R=5$ V)                                   |                  |                    |                      |                    |                    |         |
|  | $I_R$            | 0.01 ( $\leq 10$ ) | 0.01 ( $\leq 10$ )   | 0.01 ( $\leq 10$ ) | 0.01 ( $\leq 10$ ) | $\mu A$ |
| Capacitance<br>( $V_R=0$ V, $f=1$ MHz)                         |                  |                    |                      |                    |                    |         |
|  | $C_D$            | 25                 | 12                   | 10                 | 15                 | pF      |
| Rise Time  | $t_r$            | 120                | 300                  | 300                | 450                | ns      |
| Fall Time  | $t_f$            | 50                 | 150                  | 150                | 450                | ns      |

**Luminous Intensity (mcd)**

| Part Number | Min. | Max. | Test Condition | Part Number | Min. | Max. | Test Condition |
|-------------|------|------|----------------|-------------|------|------|----------------|
| LR 5360-DG  | 0.4  | 3.2  | 10 mA          | LY 5360-GK  | 1.6  | 12.5 | 10 mA          |
| LR 5360-E   | 0.63 | 1.25 | 10 mA          | LY 5360-H   | 2.5  | 5    | 10 mA          |
| LR 5360-F   | 1    | 2    | 10 mA          | LY 5360-HL  | 2.5  | 20   | 10 mA          |
| LR 5360-FJ  | 1    | 8    | 10 mA          | LY 5360-J   | 4    | 8    | 10 mA          |
| LR 5360-G   | 1.6  | 3.2  | 10 mA          | LY 5360-K   | 6.3  | 12.5 | 10 mA          |
| LS 5360-HL  | 2.5  | 20   | 10 mA          | LG 5360-GK  | 1.6  | 12.5 | 10 mA          |
| LS 5360-J   | 4    | 8    | 10 mA          | LG 5360-H   | 2.5  | 5    | 10 mA          |
| LS 5360-K   | 6.3  | 12.5 | 10 mA          | LG 5360-J   | 4    | 8    | 10 mA          |
| LS 5360-KN  | 6.3  | 50   | 10 mA          | LG 5360-JM  | 4    | 32   | 10 mA          |
| LS 5360-L   | 10   | 20   | 10 mA          | LG 5360-K   | 6.3  | 12.5 | 10 mA          |

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