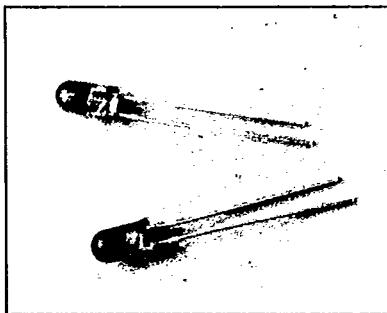
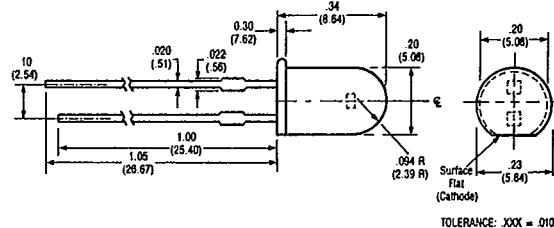


SIEMENS

**HIGH EFFICIENCY RED LS5469-EO/-FO
YELLOW LY5469-EO/-FO
GREEN LG5469-EO/-FO
LOW CURRENT T1 $\frac{3}{4}$ LED LAMP**



Package Dimensions in Inches (mm)



FEATURES

- Low Power Requirement
 - 50° Viewing Angle
 - Diffused Lens
 - 1" Lead Length
 - I/C Compatible

Maximum Ratings

Reverse Voltage (V_R)	5 V
Forward Current (I_F)	7.5 mA
Surge Current ($\tau \leq 10 \mu\text{s}$; $D \leq .005$) (I_{FS})	100 mA
Storage Temperature Range ($T_{S\text{ig}}$)	-55 to +100°C
Junction Temperature (T_J)	100°C
Total Power Dissipation ($T_{J\text{am}} = 25^\circ\text{C}$) (P_{tot})	20 mW
Thermal Resistance Junction-air (R_{JNA})500 KW

DESCRIPTION

The 5469 series are low current LED lamps that have been designed to optimize light output at very low currents. These parts are ideally suited for applications where power is at a premium, such as portable equipment.

Both the HER and yellow lamps utilize GaAsP on GaP semiconductor materials while the green lamps utilize GaP on GaP.

See graph numbers 2K, 3F and 4C (HER), 3G and 4D (yellow), 3H and 4E (green), 6F on pages 4-27 – 4-34.

Electrical/Optical Characteristics (T _{amb} = 25°C)					Test Condition
	Min	Typ	Max	Unit	
Luminous Intensity					
HER, Yellow, Grn (-EO)	0.63	2		mcd	I _F = 2 mA
HER, Yellow, Grn (-FO)	1	2		mcd	I _F = 2 mA
Peak Wavelength					
HER		635		nm	I _F = 2 mA
Yellow		590		nm	I _F = 2 mA
Green		565		nm	I _F = 2 mA
Dominant Wavelength					
HER		625		nm	I _F = 2 mA
Yellow		592		nm	I _F = 2 mA
Green		564		nm	I _F = 2 mA
Half Angle		50		Deg.	
Forward Voltage V _F					
HER	1.8	2.5	V		I _F = 2 mA
Yellow, Green	1.9	2.7	V		I _F = 2 mA
Reverse Current I _R	010	10	μA		V _R = 5 V
Response Time					
(Rise Time) t _r					
I _v from 10% to 90%					
HER, Yellow		200		ns	I _F = 25 mA T = 1 μsec
Green		450		ns	I _F = 25 mA T = 1 μsec
Response Time					
(Fall Time) t _f					
I _v from 90% to 10%					
HER, Yellow		150		ns	I _F = 25 mA T = 1 μsec
Green		200		ns	I _F = 25 mA T = 1 μsec
Capacitance C _o					
HER, Yellow		3		pF	V _R = 0 V f = 1 MHz
Green		12		pF	V _R = 0 V f = 1 MHz
Spectral Line Halfwidth					
HER		45		nm	I _F = 2 mA
Yellow		50		nm	I _F = 2 mA
Green		25		nm	I _F = 2 mA