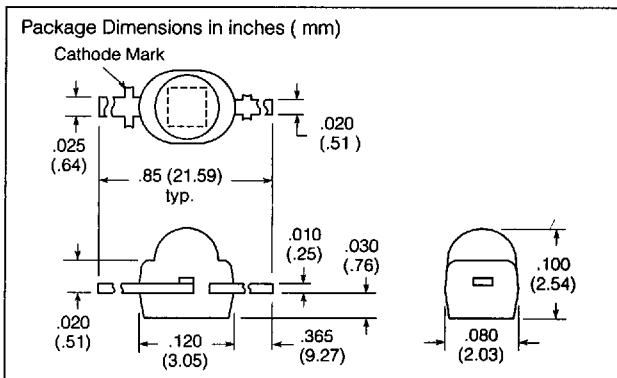
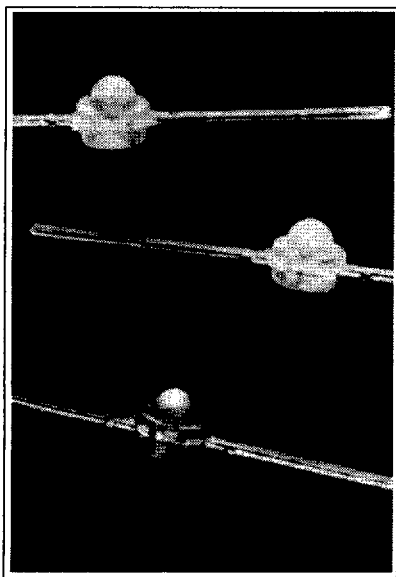


SIEMENS

WATER CLEAR DIFFUSED LENS RL-50 RED DIFFUSED LENS RL-54 Red Miniature Axial Lead LED Lamp



Maximum Ratings

Operating and Storage Temperature Range -55°C to +100°C
Lead Solder Time, 260°C (.063" from case) 5 sec.
Peak Reverse Voltage 3 V
Continuous Forward Current 40 mA
Power Dissipation ($T_A=25^\circ\text{C}$) 80 mW
Derate Linearly from 25°C -1.1 mW/°C

FEATURES

- High Luminance—1.0 mcd at 20 mA, typical
- Optimum Packaging Design for Maximum Strength at Minimum Linear Spacing
- Operates from 5 Volt IC Logic Supply
- Small Size
- High Reliability
- Lens
RL-50: Water Clear
RL-54: Red Diffused

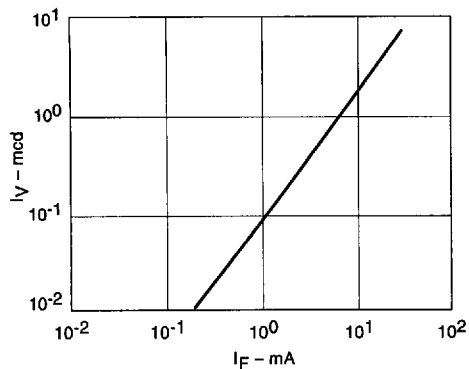
DESCRIPTION

The RL-50 and RL-54 are intended for high volume use in array and indicator light applications. Major advantages of these devices are high luminance at low currents, long life and low cost.

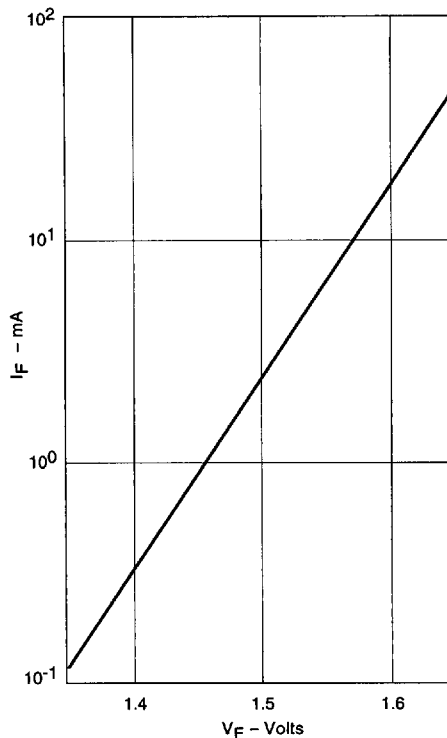
Electrical/Optical Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Min.	Typ.	Max.	Unit	Test Condition
Wavelength, Peak Emission		660		nm	
Viewing Angle		90		Deg.	
Forward Voltage		1.6	2.0	V	$I_F=20\text{ mA}$
Reverse Current			100	μA	$V_R=3\text{ V}$
Luminous Intensity					
RL-50	0.5	1.0		mcd	$I_F=20\text{ mA}$
RL-54	0.4	0.6		mcd	$I_F=20\text{ mA}$

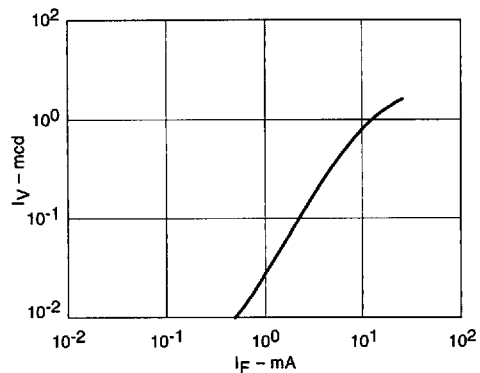
Luminous intensity versus forward current RL-50



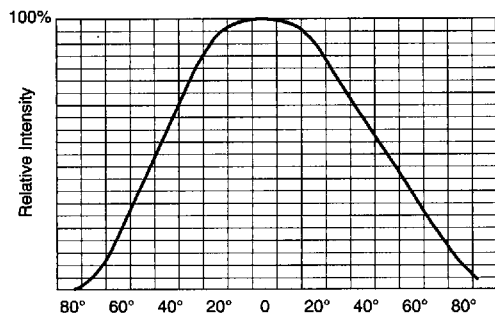
Forward Current versus forward voltage



Luminous intensity versus forward current RL-54



Radiation characteristics



Relative spectral emission

