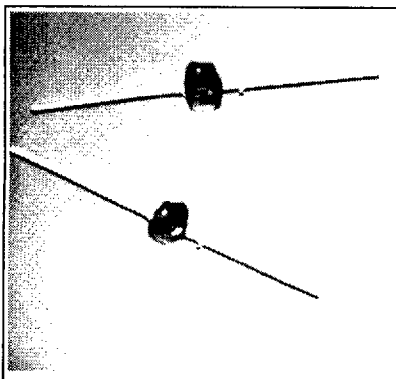


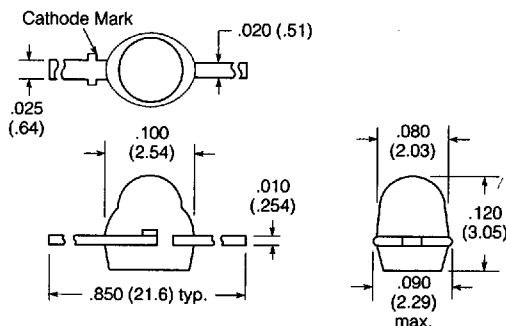
SIEMENS

RED RL-55
YELLOW YL-56
GREEN GL-56

Miniature Axial Lead LED Lamp



Package Dimensions in inches (mm)



FEATURES

- High on Axis Intensity
- Optimum Packaging Design for Maximum Strength at Minimum Linear Spacing
- Operates from 5 Volt IC Logic Supply
- Miniature Axial Lead
- High Reliability
- Low Cost Version (Red), RL-55-5

DESCRIPTION

The RL-55 is a gallium arsenide phosphide lamp and the GL-56/YL-56 are gallium phosphide lamps that have on-axis intensity, long life and low cost. They have diffused lenses and provide a full 0.080" flooded light with good contrast.

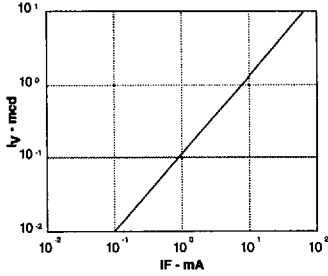
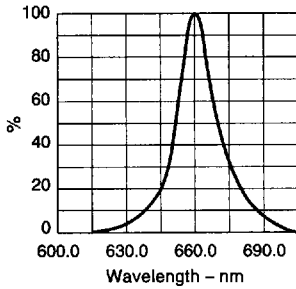
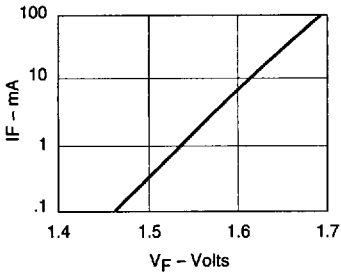
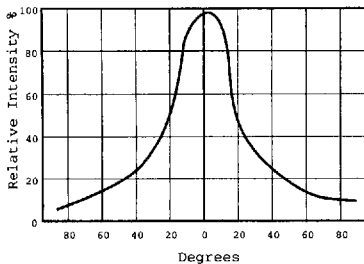
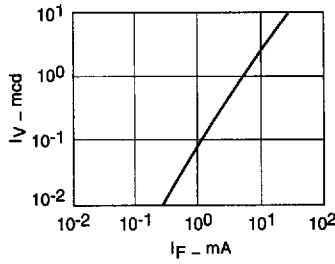
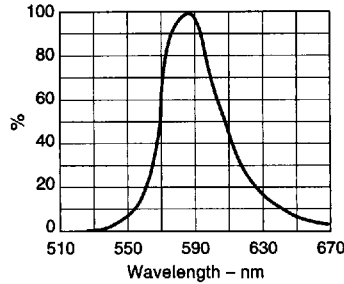
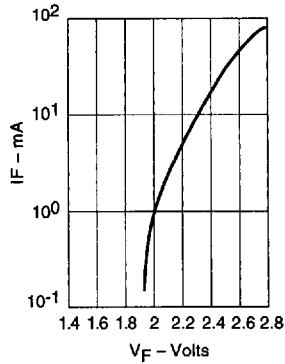
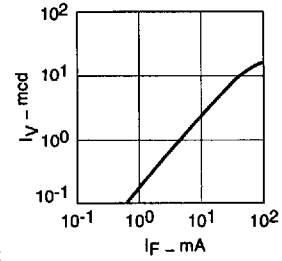
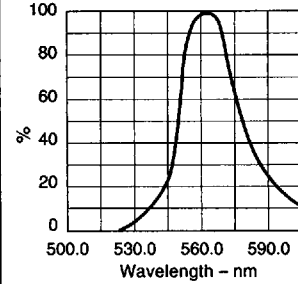
Applications include mounting on PC boards at low current as diagnostic and circuit status indicators.

Maximum Ratings

Operating and Storage Temperature Range -55°C to +100°C
Lead Solder Time, 260°C (.063" from case) 5 sec.
Peak Inverse Voltage 3 V
Continuous Forward Current
RL-55 40 mA
GL-56, YL-56 25 mA
Peak Forward Current (1 μ s pulse, 0.1% duty cycle) 250 mA
Power Dissipation ($T_A=25^\circ\text{C}$) 80 mW
Derate Linearly from 25°C -1.1 mW/°C

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

Parameter	Min.	Typ.	Max.	Unit	Test Condition
Wavelength, Peak Emission					
RL-55		660		nm	
GL-56		565		nm	
YL-56		585		nm	
Spectral Line Half Width		40		nm	
Viewing Angle					
RL-55		50		Deg.	
GL-56, YL-56		40		Deg.	
Forward Voltage					
RL-55		1.6	2.0	V	$I_F=20$ mA
GL-56		2.2	3.5	V	$I_F=20$ mA
YL-56		2.4	3.5	V	$I_F=20$ mA
Reverse Current		0.15	10	μ A	$V_R=3$ V
Luminous Intensity					
RL-55	2.0	2.2		mcd	$I_F=10$ mA
GL-56	1.0	1.3		mcd	$I_F=10$ mA
YL-56	2.0	2.2		mcd	$I_F=10$ mA

Red, RL-55**Luminous intensity versus forward current****Relative spectral emission****Forward current versus forward voltage****Radiation characteristics****Yellow, YL-56****Luminous intensity versus forward current****Relative spectral emission****Forward current versus forward voltage****Green, GL-56****Luminous intensity versus forward current****Relative spectral emission****Forward current vs. forward voltage**