



GL5ED27 (Yellow-green/Red)

■ Electro-optical Characteristics

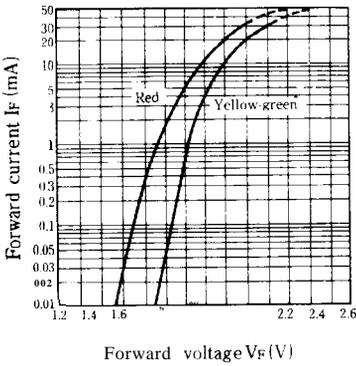
(Ta=25°C)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V <sub>F</sub>	Yellow-green	I <sub>F</sub> = 20mA	—	2.1	2.8	V
		Red	I <sub>F</sub> = 20mA	—	2.0	2.8	
※4 Luminous intensity	I <sub>V</sub>	Yellow-green	I <sub>F</sub> = 20mA	2.0	5.0	—	mcd
		Red	I <sub>F</sub> = 20mA	1.0	3.0	—	
Peak emission wavelength	λ <sub>p</sub>	Yellow-green	I <sub>F</sub> = 20mA	—	565	—	‘m
		Red	I <sub>F</sub> = 20mA	—	635	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I <sub>F</sub> = 20mA	—	30	—	‘m
		Red	I <sub>F</sub> = 20mA	—	35	—	
Reverse current	I <sub>R</sub>	Yellow-green	V <sub>R</sub> = 4V	—	—	10	μA
		Red	V <sub>R</sub> = 4V	—	—	10	
Terminal capacitance	C <sub>t</sub>	Yellow-green	V = 0V f = 1 MHz	—	35	—	pF
		Red	V = 0V f = 1MHz	—	20	—	
Response frequency	f <sub>c</sub>	Yellow-green	—	—	4	—	MHz
		Red	—	—	4	—	

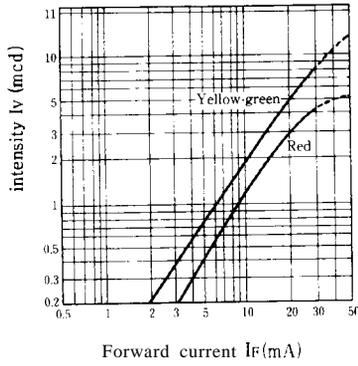
※4 Tolerance: ±30%

■ Characteristics Diagrams

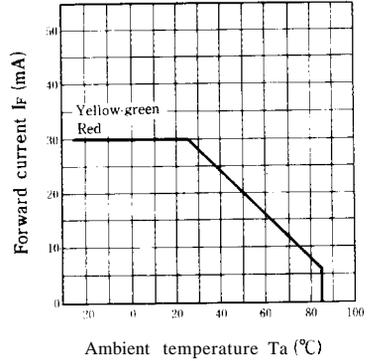
Forward Current vs. Forward Voltage (Ta = 25°C)



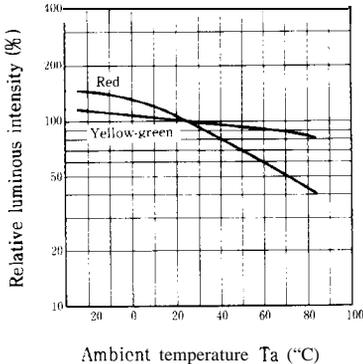
Luminous Intensity vs. Forward Current (Ta = 25°C)



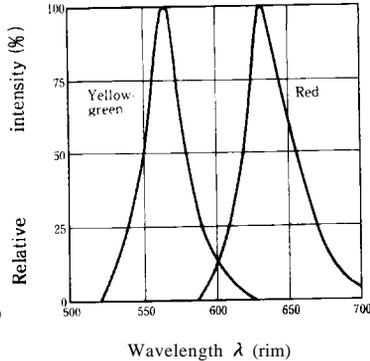
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (I<sub>F</sub> = 20mA)



Spectrum Distribution (Ta = 25°C)



GL5HP27 (Yellow/Red)

■ Electro-optical Characteristics

(Ta = 25°C)

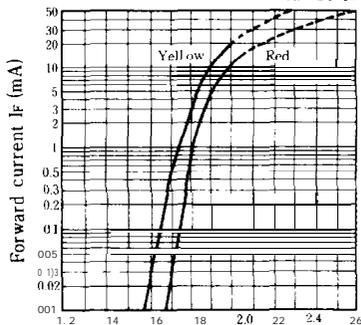
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V <sub>F</sub>	Yellow	I <sub>F</sub> = 15mA	—	1.9	2.5	V
		Red	I <sub>F</sub> = 10mA	—	2.0	2.4	
*4 Luminous intensity	I <sub>v</sub>	Yellow	I <sub>F</sub> = 15mA	0.50	2.0	—	mcd
		Red	I <sub>F</sub> = 10mA	0.40	1.0	—	
Peak emission wavelength	λ <sub>p</sub>	Yellow	I <sub>F</sub> = 15mA	—	585	—	nm
		Red	I <sub>F</sub> = 10mA	—	695	—	
Spectrum radiation bandwidth	Δλ	Yellow	I <sub>F</sub> = 15mA	—	30	—	nm
		Red	I <sub>F</sub> = 10mA	—	100	—	
Reverse current	I <sub>R</sub>	Yellow	V <sub>R</sub> = 4V	—	—	10	μA
		Red	V <sub>R</sub> = 4V	—	—	10	
Terminal capacitance	C <sub>t</sub>	Yellow	V = 0V f = 1MHz	—	35	—	pF
		Red	V = 0V f = 1 MHz	—	55	—	
Response frequency	f <sub>c</sub>	Yellow	—	—	4	—	MHz
		Red	—	—	4	—	

\*4 Tolerance: ±30%

■ Characteristics Diagrams

Forward Current vs. Forward Voltage

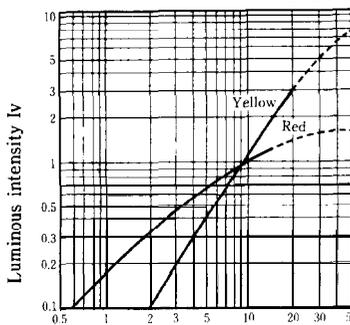
(Ta = 25°C)



Forward voltage V<sub>F</sub> (V)

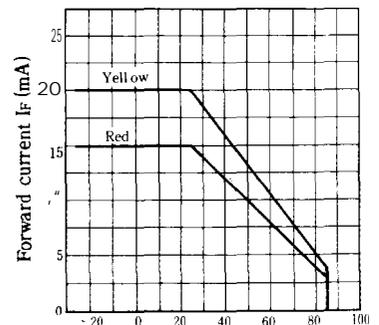
Luminous Intensity vs. Forward Current

(Ta = 25°C)



Forward current I<sub>F</sub> (mA)

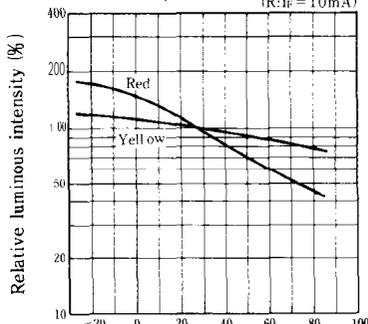
Forward Current Derating Curve



Ambient temperature T<sub>a</sub> (°C)

Relative Luminous Intensity vs. Ambient Temperature

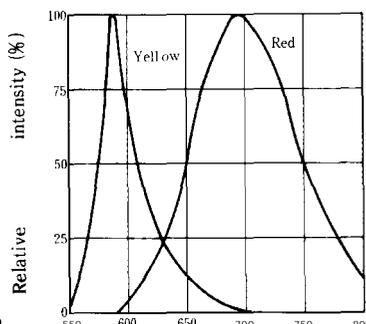
(Y: I<sub>F</sub> = 15mA)  
(R: I<sub>F</sub> = 10mA)



Ambient temperature T<sub>a</sub> (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)

