

GL6CU11

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	GL6CU11				Unit
		Yellow-green	Red			
*1 Power dissipation	P	84	75			mW
Continuous forward current	I _F	30	30			mA
*2 Peak forward current	I _{FM}	50	50			mA
Derating factor	DC	—	0.40	0.40		mA/°C
	Pulse	—	0.67	0.67		mA/°C
Reverse voltage	V _R	5	4			v
Operating temperature	T _{opr}	-25 to +85				°C
Storage temperature	T _{stg}	25 to +100				°C
*3 Soldering temperature	T _{sol}	260(within 5 seconds)				°C

*1 The value of power dissipation is specified under the condition that either yellow-green or red is lightened separately. When the both diodes of yellow-green and red are lightened simultaneously, the power dissipation of each diode should be less than the half of the value specified in this table.

*2 Duty ratio = 1/10, Pulse width = 0.1ms

*3 At the (A) position of outline dimensions

3

GL6CU11 (Yellow-green/Red)

■ **Electro-optical** Characteristics

(Ta=25°C)

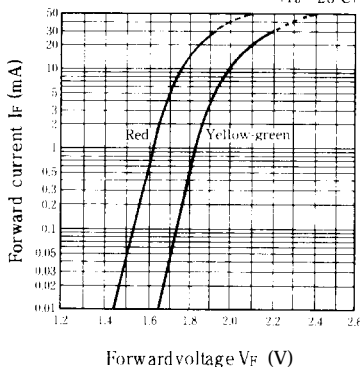
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 20mA	—	2.1	2.8	V
		Red	I _F = 20mA	—	1.85	2.5	
※4 Luminous intensity	I _V	Yellow-green	I _F = 20mA	40	80	—	mcd
		Red	I _F = 20mA	100	150	—	
Peak emission wavelength	λ _p	Yellow-green	I _F = 20mA	—	565	—	‘m
		Red	I _F = 20mA	—	660	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I _F = 20mA	—	30	—	‘m
		Red	I _F = 20mA	—	20	—	
Reverse current	I _R	Yellow-green	V _R = 4V	—	10	—	μA
		Red	V _R = 3V	—	100	—	
Terminal capacitance	C _t	Yellow-green	V=0V f=1 MHz	—	35	—	pF
		Red	V=0V f=1 MHz	—	30	—	
Response frequency	f _c	Yellow -green	—	—	4	—	‘Hz
		Red	—	—	8	—	

※4 Tolerance: ±30%

■ **Characteristics Diagrams**

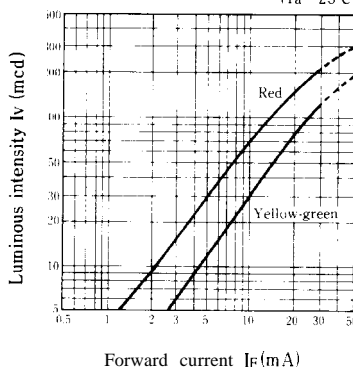
Forward Current vs. Forward Voltage

(Ta = 25°C)

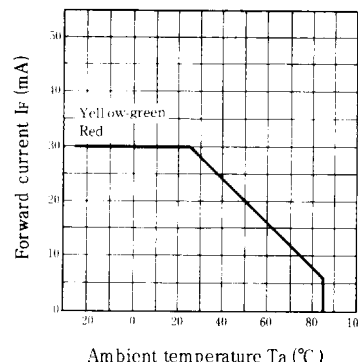


Luminous Intensity vs. Forward Current

(Ta = 25°C)

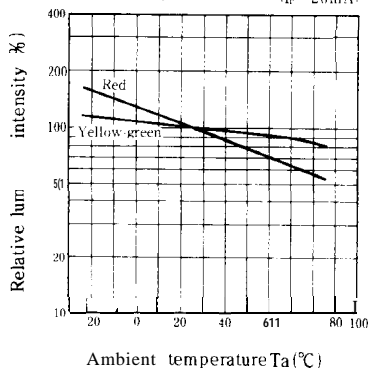


Forward Current Derating Curve



Relative Luminous intensity vs. Ambient Temperature

(I_F = 20mA)



Spectrum Distribution

(Ta = 25°C)

