



## GL107M8

■ Absolute Maximum Ratings <sup>※1</sup>

(Ta=25°C)

Parameter	Symbol	GL107M8				Unit
		Yellow-green	Red			
Power dissipation	P	84	23			mW
Continuous forward current	I <sub>F</sub>	30	10			mA
※2 Peak forward current	I <sub>FM</sub>	50	50			mA
Derating factor	DC	–	0.40	0.13		mA/°C
	Pulse	–	0.67	0.67		mA/°C
Reverse voltage	V <sub>R</sub>	5	5			V
Operating temperature	T <sub>opr</sub>	-25 to +85				°C
Storage temperature	T <sub>stg</sub>	-25 to +100				°C
※3 Soldering temperature	T <sub>sol</sub>	260 (within 5 seconds)				°C

※1 Per dot

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

※3 At the position of 1.6 mm from the bottom face of resin package

GL107M8(Yellow-green/Red)

■ Electro-optical Characteristics \*1

(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> = 5mA	—	1.9	2.3	
*4 Luminous intensity	I <sub>v</sub>	Yellow-green	I <sub>F</sub> = 20mA	0.6	1.4	—	mcd
		Red	I <sub>F</sub> = 5mA	0.3	0.9	—	
Peak emission wavelength	λ <sub>p</sub>	Yellow-green	I <sub>F</sub> = 20mA	—	565	—	nm
		Red	I <sub>F</sub> = 5mA	—	695	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I <sub>F</sub> = 20mA	—	30	—	nm
		Red	I <sub>F</sub> = 5mA	—	100	—	
Reverse current	I <sub>R</sub>	Yellow-green	V <sub>R</sub> = 4V	—	—	10	μA
		Red	V <sub>R</sub> = 4V	—	—	10	
Response frequency	f <sub>c</sub>	Yellow-green	—	—	4	—	MHz
		Red	—	—	4	—	

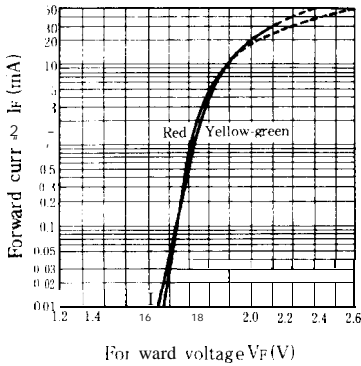
\*1 Per dot

\*4 Tolerance: ±30%

■ Characteristics Diagrams

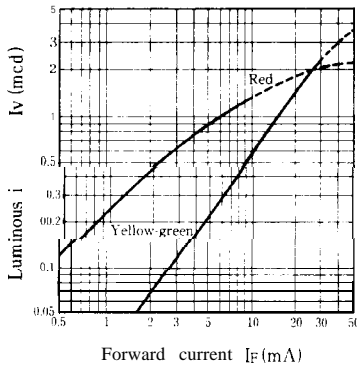
Forward Current vs. Forward Voltage

(Ta = 25°C)

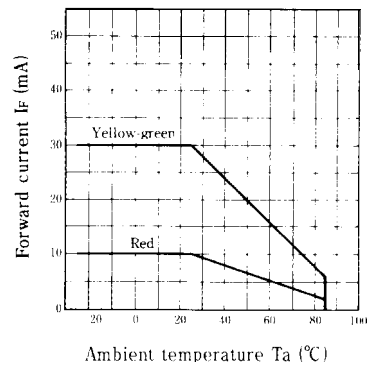


Luminous Intensity vs. Forward Current

(Ta = 25°C)

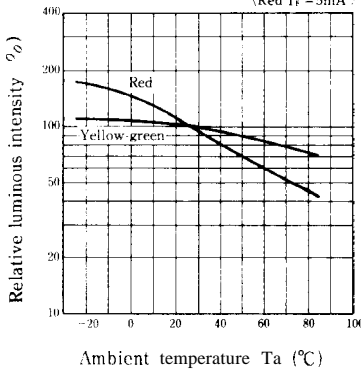


Forward Current Dersting Curve



Relative Luminous Intensity vs. Ambient Temperature

(Y.g I<sub>F</sub> = 20mA)  
(Red I<sub>F</sub> = 5mA)



Spectrum Distribution

(Ta = 25°C)

