

# GL112M9

12-Dots Array LED, Dichromatic  
(8 yellow-green dots and 4 red dots)

■ **Model No.**

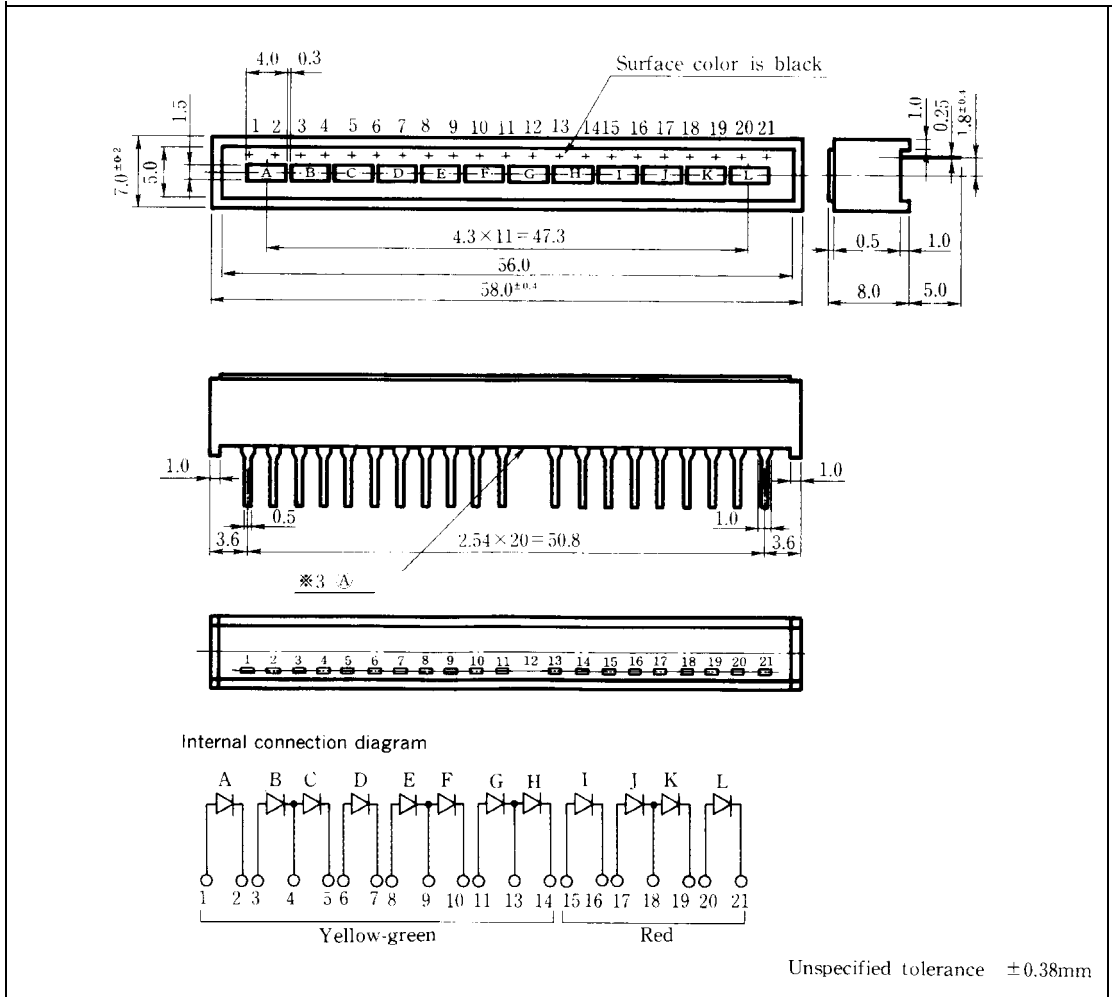
GL112M9	Yellow-green	GaP
	Red	GaP

■ **Features**

1. Radiation shape per dots 1.5 × 4.0mm
2. Outline dimensions 7.0 × 58.0mm
3. 12 dots case mold type
4. Yellow-green : 8 dots
5. Red : 4 dots

■ **Outline Dimensions**

(Unit mm)



## GL1 12M9

■ Absolute Maximum Ratings <sup>※1</sup>(T<sub>a</sub> = 25°C)

Parameter	Symbol	GL112M9				Unit
		Yellow-green	Red			
Power dissipation	P	38	25			mW
Continuous forward current	I <sub>F</sub>	15	10			mA
<sup>※2</sup> Peak forward current	I <sub>FM</sub>	50	50			mA
Derating factor	DC	—	0.27	0.18		mA/°C
	Pulse	—	0.91	0.91		mA/°C
Reverse voltage	V <sub>R</sub>	5	5			v
Operating temperature	T <sub>opr</sub>	-20 to +70				°C
Storage temperature	T <sub>stg</sub>	-30 to +80				°C
<sup>※3</sup> 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 2.6 mm from (A) level of outline dimensions

GL1 12M9(Yellow-green/Red)

■ Electro-optical Characteristics ※1

(Ta = 25°C)

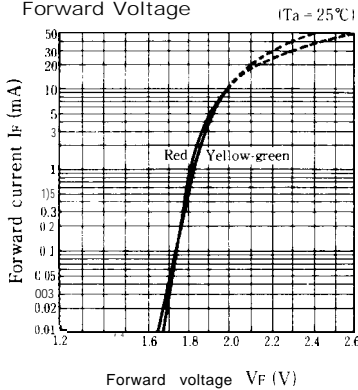
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V <sub>F</sub>	Yellow-green	I <sub>F</sub> = 10mA	—	2.0	2.5	V
		Red	I <sub>F</sub> = 5mA	—	1.9	2.5	
※4 Luminous intensity	I <sub>v</sub>	Yellow-green	I <sub>F</sub> = 10mA	0.2	0.5	—	mcd
		Red	I <sub>F</sub> = 5mA	0.15	0.3	—	
Peak emission wavelength	λ <sub>p</sub>	Yellow-green	I <sub>F</sub> = 10mA	—	565	—	nm
		Red	I <sub>F</sub> = 5mA	—	695	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I <sub>F</sub> = 10mA	—	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

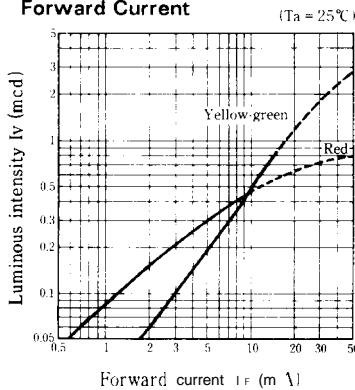
※4 Tolerance: ±30%

■ Characteristics Diagrams

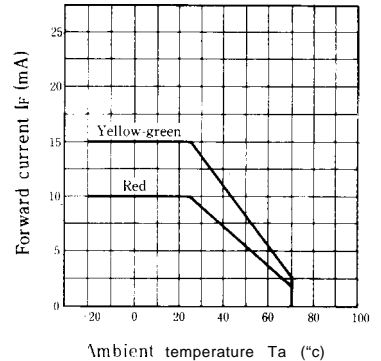
Forward Current vs. Forward Voltage



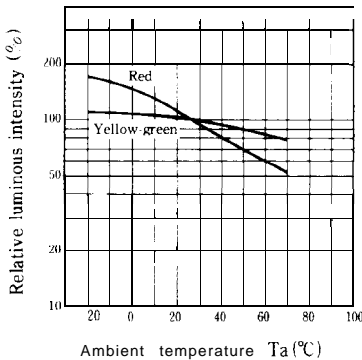
Luminous Intensity vs. Forward Current



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (Y.g I<sub>F</sub> = 10mA, Red I<sub>F</sub> = 5mA)



Spectrum Distribution

