

# LT5200M

4×4 Dichromatic Dot Matrix LEDs

## ■Model No.

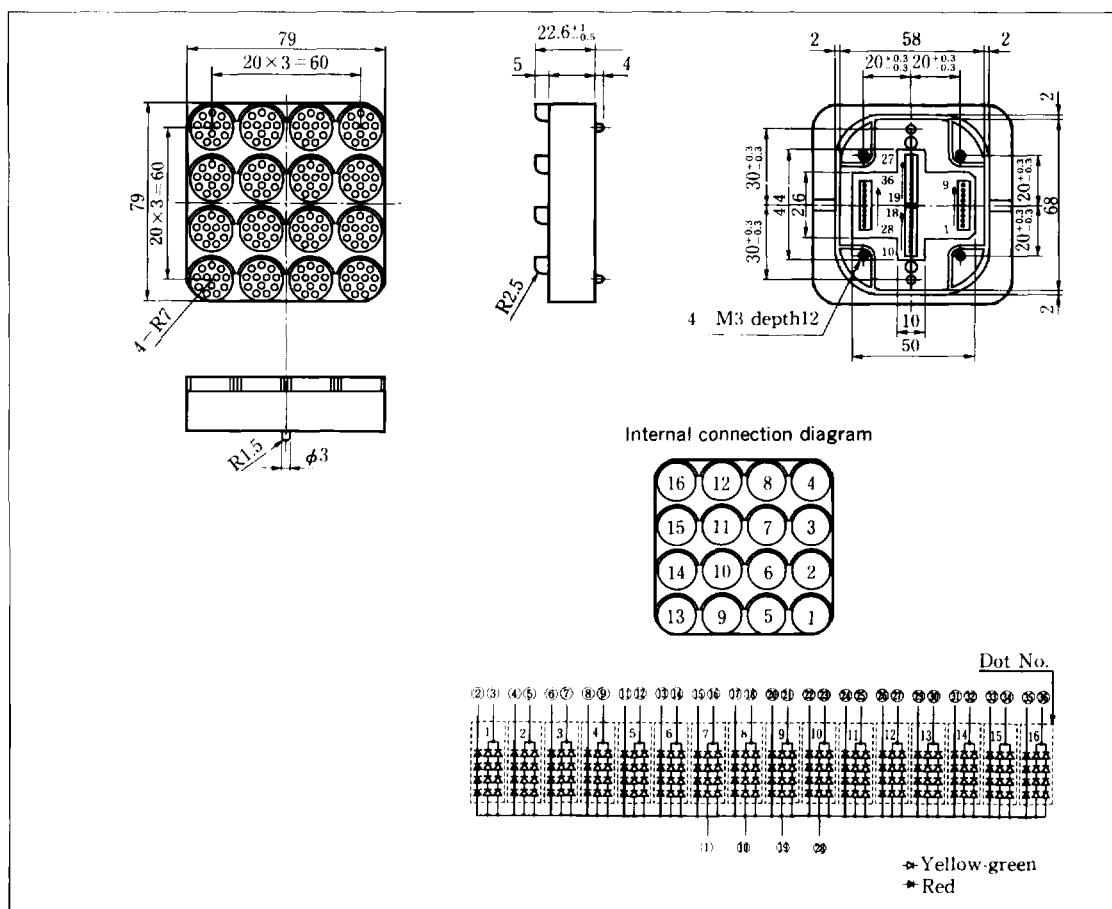
LT5200M Yellow-green      GaP  
Red(Super-luminosity)      GaAlAs/GaAlAs

## ■Features

1. Waterproof package with hood
2. Radiation color : Yellow-green, red and orange(mixed color)
3. Best suitable for outdoor and indoor information boards

## ■Outline Dimensions

(Unit : mm)



**LT5200M****■Absolute Maximum Ratings(Per dot)**

(Ta=25°C)

Parameter	Symbol	LT5200M				Unit
		Yellow-green	Red			
* <sup>1</sup> Power dissipation	P	8.84	3.84			W
Continuous forward current	I <sub>F</sub>	60	30			mA
Peak forward current	I <sub>FM</sub>	—	—			mA
Derating factor	DC	—	—	—		mA/°C
	Pulse	—	—	—		mA/°C
Reverse voltage	V <sub>R</sub>	15				V
Operating temperature	T <sub>opr</sub>	−20 to +70				°C
Storage temperature	T <sub>stg</sub>	−25 to +100				°C
Soldering temperature	T <sub>sot</sub>	—				°C

\*1 Per device

## LT5200M(Yellow-green/Red)

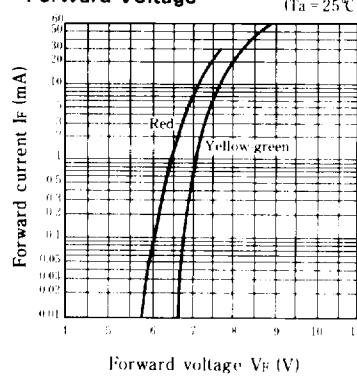
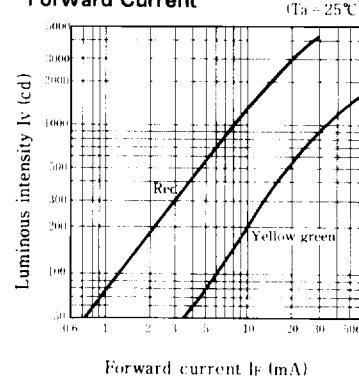
## ■Electro-optical Characteristics(Per dot)

(Ta=25°C)

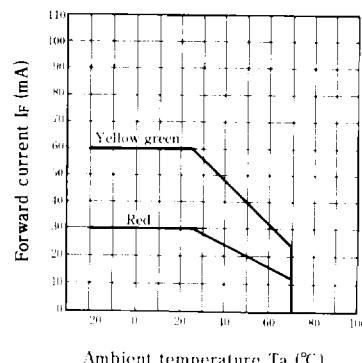
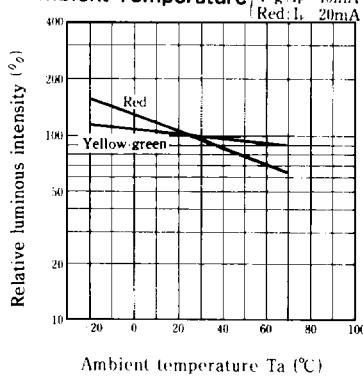
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	$V_F$	Yellow-green	$I_F = 40\text{mA}$	—	8.4	9.2	V
		Red	$I_F = 20\text{mA}$	—	7.4	8.0	
*2 Luminous intensity	$I_V$	Yellow-green	$I_F = 40\text{mA}$	720	1200	—	cd/m <sup>2</sup>
		Red	$I_F = 20\text{mA}$	1800	3000	—	
Peak emission wavelength	$\lambda_P$	Yellow-green	$I_F = 40\text{mA}$	—	565	—	nm
		Red	$I_F = 20\text{mA}$	—	660	—	
Spectrum radiation bandwidth	$\Delta\lambda$	Yellow-green	$I_F = 40\text{mA}$	—	30	—	nm
		Red	$I_F = 20\text{mA}$	—	20	—	
Reverse current	$I_R$	Yellow-green	$V_R = 15\text{V}$	—	—	100	$\mu\text{A}$
		Red	$V_R = 15\text{V}$	—	—	100	
Terminal capacitance	$C_t$	Yellow-green	—	—	—	—	pF
		Red	—	—	—	—	
Response frequency	$f_c$	Yellow-green	—	—	0.8	—	MHz
		Red	—	—	7	—	

\*2 Per device, Tolerance :  $\pm 20\%$ 

## ■Characteristics Diagrams

Forward Current vs.  
Forward VoltageLuminous Intensity vs.  
Forward Current

Forward Current Derating Curve

Relative Luminous Intensity vs.  
Ambient Temperature |Y.g: I<sub>F</sub> = 40mA | Red: I<sub>F</sub> = 20mA

Spectrum Distribution

