

# GL3T422 / GL3T421

8.0mm Character Height  
Numeric LEDs

■ Model No.

GL3T422/GL3T421

Red (High-luminosity)

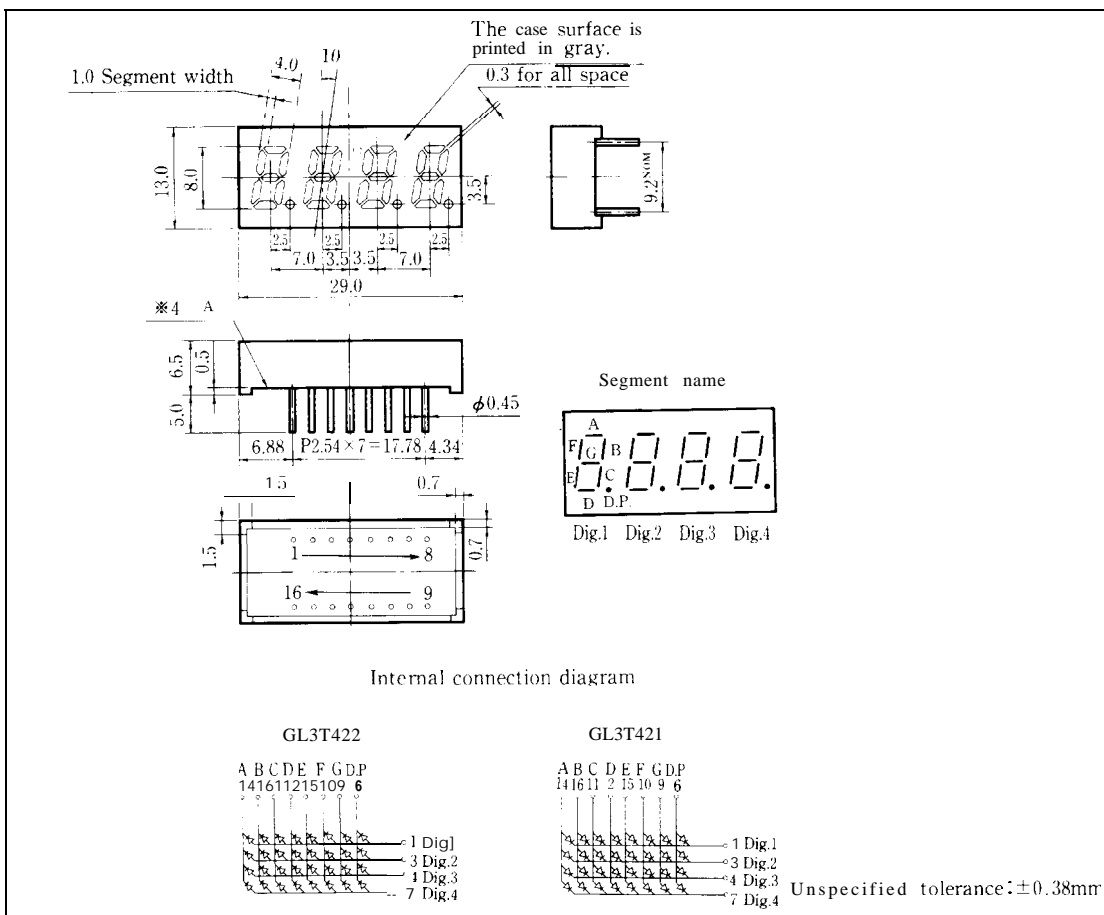
GaAlAs/GaAs

■ Features

1. Character height : 8.0mm
2. 4 digits
3. Case mold type
4. Diamond cut type segments

■ Outline Dimensions

(Unit: mm)



5

GL3T422/GL3T421

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter		Symbol	GL3T422					Unit
			GL3T421					
Power dissipation	*1 Per digit	P	308					mW
Continuous forward current	*1 Per digit	$I_F$	140					mA
	*2	$I_F$	20					mA
*3 Peak forward current	*2	$I_{FM}$	100					mA
Derating factor	*2 DC	—	0.36					mA/°C
	*2 Pulse	—	1.82					mA/°C
Reverse voltage	Per segment	$V_R$	5					v
	Per decimal point	$V_R$	5					V
Operating temperature		$T_{opr}$	30 to +70					°C
Storage temperature		$T_{stg}$	-40 to +80					°C
*4 Soldering temperature		$T_{sol}$	260 (within 5 seconds)					°C

\*1 Per digit: 7 segments

\*2 Per segment, or per decimal point

\*3 Duty ratio = 1/10, Pulse width = 0.1ms

\*4 At the position of 2.1 mm from (A) level of outline dimensions

### GL3T422/GL3T421(Red)

#### Electro-optical Characteristics

(Ta = 25°C)

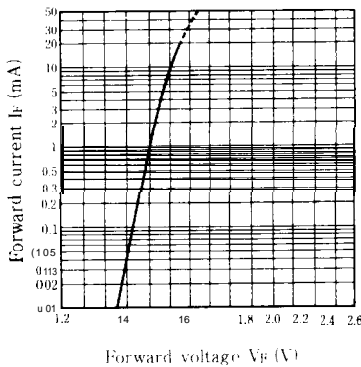
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	GL3T422 GL3T421	If = 10mA	—	1.7	2.2	V
	Per decimal point	GL3T422 GL3T421	If = 10mA	—	1.7	2.2	V
*5 Luminous intensity	Per segment	GL3T422 GL3T421	If = 10mA	<b>0.6</b>	1.5	—	mcd
	Per decimal point	GL3T422 GL3T421	If = 10mA	0.18	0.45	—	mcd
*2 Peak emission wavelength	$\lambda_p$	GL3T422 GL3T421	If = 10mA	—	660	—	nm
*2 Spectrum radiation bandwidth	$\Delta\lambda$	GL3T422 GL3T421	If = 10mA	—	20	—	nm
Reverse current	Per segment	GL3T422 GL3T421	VR = 4V	—	—	10	$\mu A$
	Per decimal point	GL3T422 GL3T421	VR = 4V	—	—	10	$\mu A$
*2 Response frequency	$f_c$	GL3T422 GL3T421	—	—	8	—	MHz

\*2 Per segment, or per decimal point

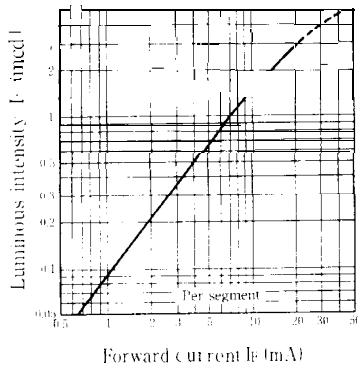
\*5 Tolerance:  $\pm 30\%$

#### Characteristics Diagrams

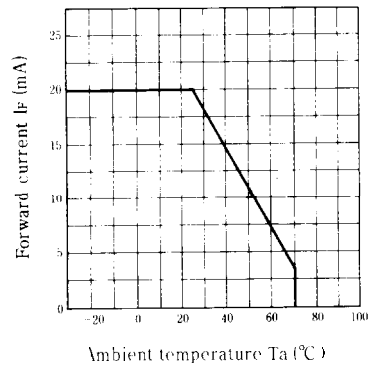
Forward Current vs. Forward Voltage (Ta = 25°C)



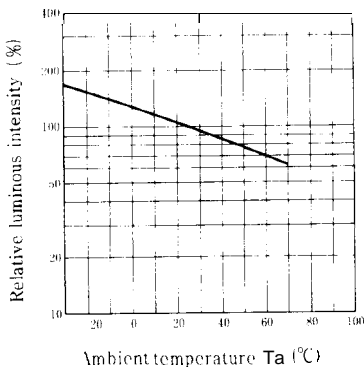
Luminous Intensity vs. Forward Current (Ta = 25°C)



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (If = 10mA)



Spectrum Distribution (Ta = 25°C)

