GL9□08 / GL8□08 Series

20.32mm Character Height Numeric LEDs

■ Model No.

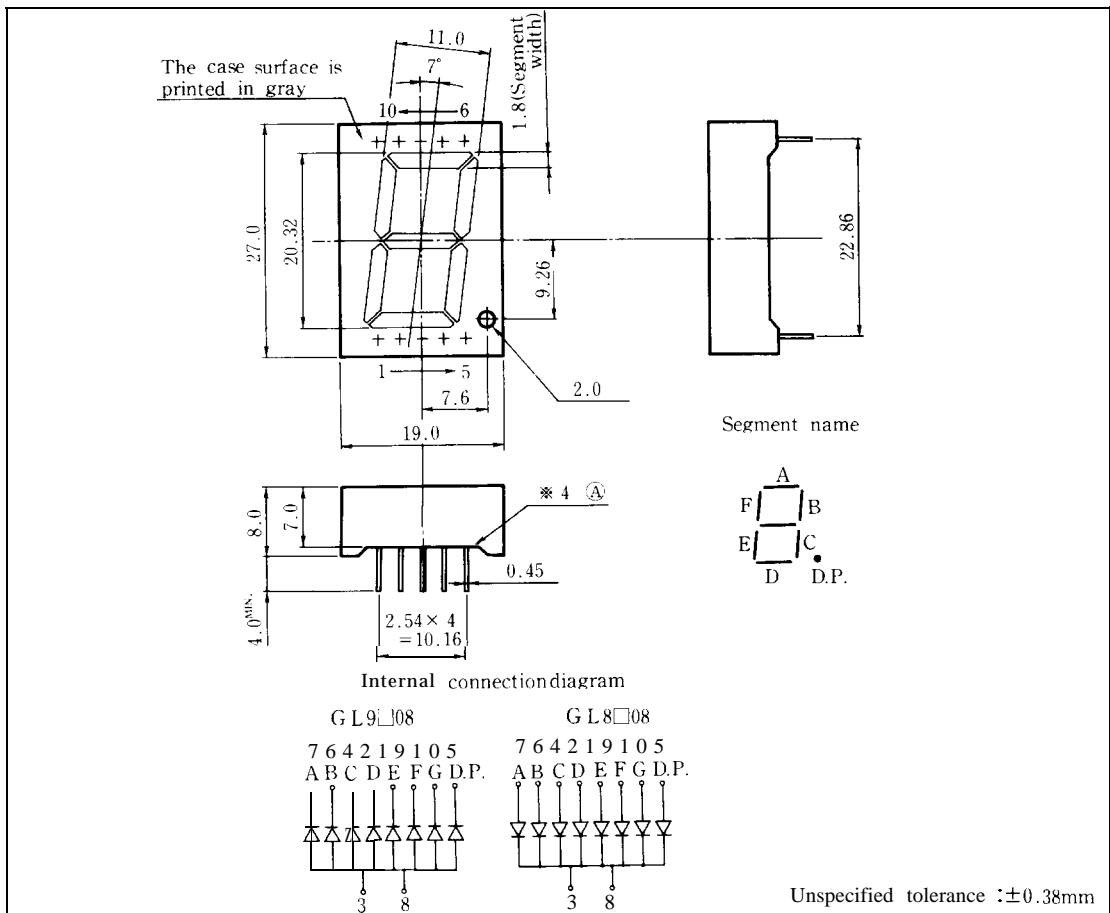| GL9L08/GL8L08 | Red (High-luminosity) | GaAlAs/GaAs |
| GL9T08/GL8T08 | Red (High-luminosity) | GaAlAs/GaAs |

■ Features

1. Character height : 20.32mm
2. 1 digit
3. Case mold type
4. Diamond cut type segments

■ Outline Dimensions

(Unit: mm)

Segment name

Internal connection diagram

GL9□08   GL8□08

764219105   764219105
ABCDEFG D.P.   ABCDEFG D.P.

Unspecified tolerance : ±0.38mm

5

SHARP

403

GL9□08 / GL8□08

■ Absolute Maximum Ratings

(Ta = 25℃)

Parameter		Symbol	GL9L08 GL8L08 GL9T08 GL8T08					Unit
Power dissipation	※1 Per digit	P	308					mW
Continuous forward current	※1 Per digit	IF	140					m,4
	※2	IF	20					mA
※3 Peak forward current	※2	IFM	100					mA
Derating factor	※2	DC	−	0.36				mA/℃
		Pulse	−	1.82				mA/"C
Reverse voltage	Per segment	VR	5					v
	Per decimal point	VR	5					v
Operating temperature		Topr	−30 to +70					"c
Storage temperature		Tstg	−40 to +80					"c
※4 Soldering temperature		Tsol	260 (within 5 seconds)					℃

※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 2.6 mm from Ⓐ level of outline dimensions

GL9L08/GL8L08(Red) ,GL9T08/GL8T08(Red)

■Electro-optical Characteristics

(Ta =25°C)
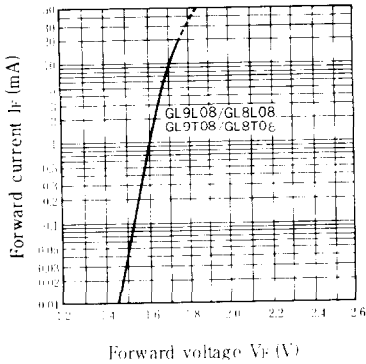
Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX	Unit
Forward voltage	Per segment	V_F	GL9L08/GL8L08	$I_F=10mA$	—	1.7	2.2	V
			GL9T08/GL8T08	$I_F=10mA$	—	1.7	2.2	
	Per **decimal** point		GL9L08/GL8L08	$I_F=10mA$		1.7	2.2	V
			GL9T08/GL8T08	$I_F=10mA$	—	1.7	2.2	
※5 Luminous intensity	Per segment	I_V	GL9L08/GL8L08	$I_F=10mA$	2.2	5.8	—	mcd
			GL9T08/GL8T08	$I_F=10mA$	1.0	2.2	—	
	Per decimal point		GL9L08/GL8L08	$I_F=10mA$	0.8	2.3	—	mcd
			GL9T08/GL8T08	$I_F=10mA$	0.4	0.9	—	
※2 Peak emission wavelength		λ_p	GL9L08/GL8L08	$I_F=10mA$		660	—	'm
			GL9T08/GL8T08	$I_F=10mA$		660	—	
※2 Spectrum radiation bandwidth		$\Delta\lambda$	GL9L08/GL8L08	$I_F=10mA$	—	20	—	nm
			GL9T08/GL8T08	$I_F=10mA$	—	20		
Reverse current	Per segment	I_R	GL9L08/GL8L08	$V_R=4V$	—	—	10	μA
			GL9T08/GL8T08	$V_R=4V$	—	—	10	
	Per decimal point		GL9L08/GL8L08	$V_R=4V$	—	—	10	μA
			GL9T08/GL8T08	$V_R=4V$	—	—	10	
※2 Response frequency		f_c	GL9L08/GL8L08	—		8	—	MHz
			GL9T08/GL8T08	—	—	8		

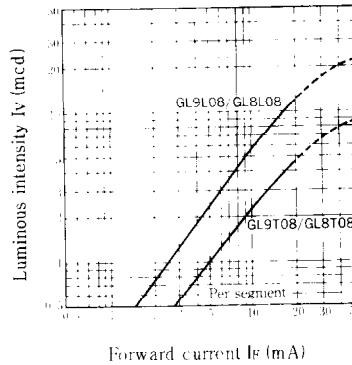※2 Per segment, or per **decimal point**
※5 Tolerance: ±30%

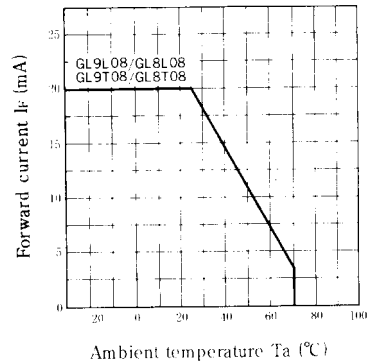# ■ Characteristics Diagrams

5

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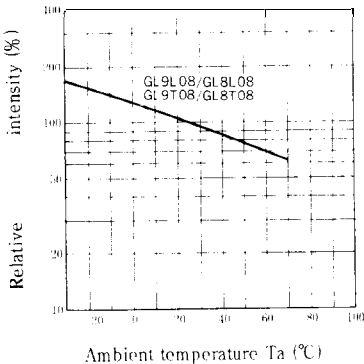(Ta = 25°C)

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

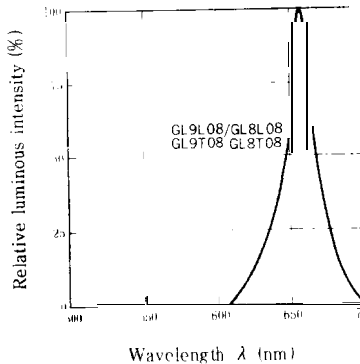### Forward Current Derating Curve

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

Spectrum Distribution
(Ta = 25°C)