

GL3 □ 306/ GL3 □ 305 Series

8.0mm Character Height
Numeric LEDs

■ Model No.

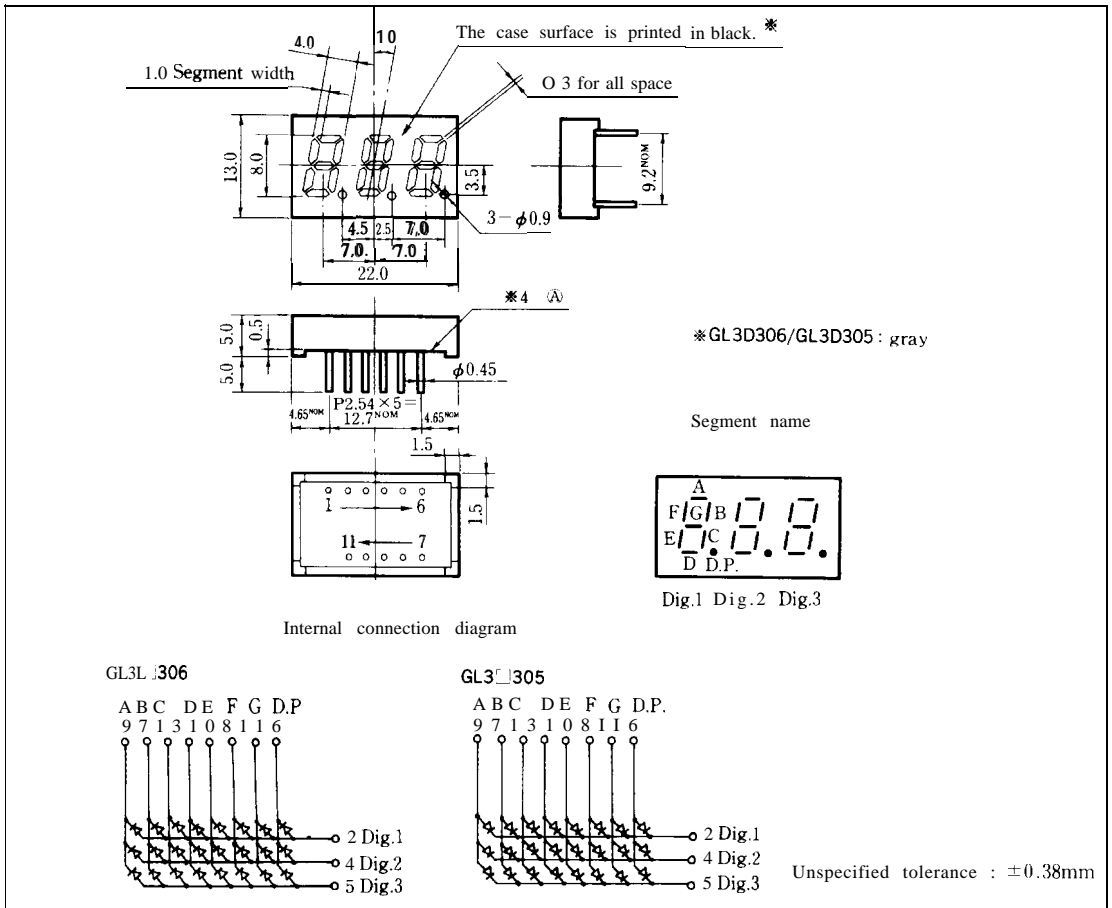
GL3P306/GL3P305	Red	GaP
GL3D306/GL3D305	Red	GaAsP/GaP
GL3E306/GL3E305	Yellow-green	GaP

■ Features

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

■ Outline Dimensions

(Unit: mm)



GL3□306 / GL3□305

■ Absolute Maximum Ratings

(Ta =25°C)

Parameter		Symbol	GL3P306	GL3D306				Unit
			GL3P305	GL3D305				
			GL3E306					
			GL3E305					
Power dissipation	*1 I per digit	P	263	322				mW
Continuous forward current	*1 Per digit	I _F	105	140				mA
	*2	I _F	15	20				mA
*3 Peak forward current	*2	I _{FM}	50	50				mA
Derating factor	*2	DC	—	0.15	0.36			mA/°C
		Pulse	—	1.11	0.91			mA/°C
Reverse voltage	Per segment	V _R	5	5				v
	Per decimal point	V _R	5	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



GL3P306/GL3P305(Red),GL3D306/GL3D305(Red)

■ Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Model No.	Conditions	MIX.	TYP.	MAX.	Unit	
Forward voltage	Per segment	V _F	GL3P306/GL3P305	I _F =5mA		1.9	2.5	V	
			GL3D306/GL3D305	I _F =10mA	—	1.85	2.3		
	Per decimal point		GL3P306/GL3P305	I _F =5mA			1.9	2.5	V
			GL3D306/GL3D305	I _F =10mA	—	—	1.85	2.3	
*5 Luminous intensity	Per segment	I _v	GL3P306/GL3P305	I _F =5mA	0.40	1.00	—	mcd	
			GL3D306/GL3D305	I _F =10mA	1.00	2.80	—		
	Per decimal point		GL3P306/GL3P305	I _F =5mA			0.15	0.35	mcd
			GL3D306/GL3D305	I _F =10mA	0.45	1.20	—		
*2 Peak emission wavelength		λ _p	GL3P306/GL3P305	I _F =5mA		695	—	nm	
			GL3D306/GL3D305	I _F =10mA		635	—		
*2 Spectrum radiation bandwidth		Δλ	GL3P306/GL3P305	I _F =5mA	—	100	—	nm	
			GL3D306/GL3D305	I _F =10mA		35	—		
Reverse current	Per segment	I _R	GL3P306/GL3P305	V _R =4V		—	10	μA	
			GL3D306/GL3D305	V _R =4V			10		
	Per decimal point		GL3P306/GL3P305	V _R =4V			—	10	μA
			GL3D306/GL3D305	V _R =4V			—	10	
*2 Response frequency		f _c	GL3P306/GL3P305	—	—	4	—	MHz	
			GL3D306/GL3D305	—	—	4	—		

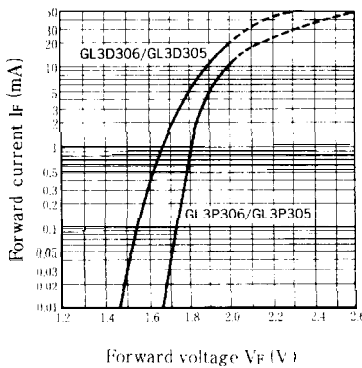
*2 Per segment, or per decimal point

*5 Tolerance: ±30%

■ Characteristics Diagrams

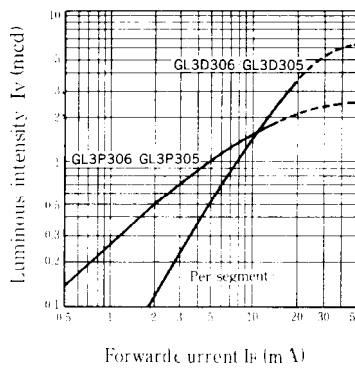
Forward Current vs. Forward Voltage

(Ta = 25°C)

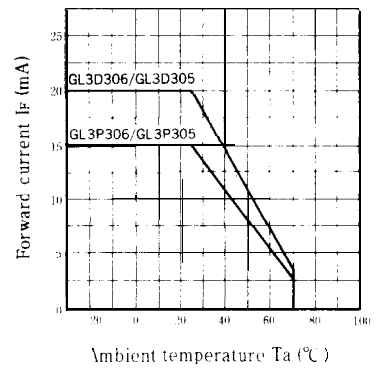


Luminous Intensity vs. Forward Current

(Ta = 25°C)

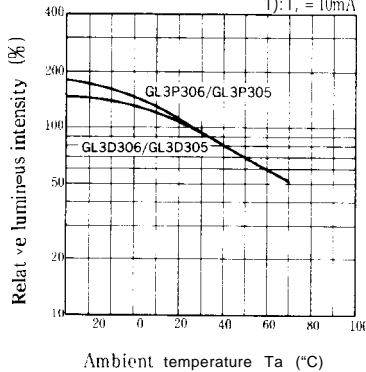


Forward Current Derating Curve



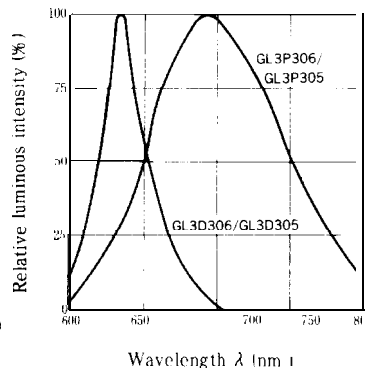
Relative Luminous Intensity vs. Ambient Temperature

P_F = 5mA
I_F = 10mA



Spectrum Distribution

(Ta = 25°C)



GL3E306/GL3E305(Yellow-green)

■ Electro-optical Characteristics

(Ta = 25°C)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V _F	GL3E306/GL3E305	I _F = 10mA	—	2.0	2.5	V
	Per decimal point		GL3E306, GL3E305	I _F = 10mA	—	2.0	2.5	
※5 Luminous intensity	Per segment	I _v	GL3E306, GL3E305	I _F = 10mA	1.35	2.85	—	mcd
	Per decimal point		GL3E306/GL3E305	I _F = 10mA	0.5	1.1	—	
※2 Peak emission wavelength		λ _p	GL3E306, GL3E305	I _F = 10mA	—	565	—	nm
※2 Spectrum radiation bandwidth		Δλ	GL3E306/GL3E305	I _F = 10mA	—	30	—	nm
Reverse current	Per segment	I _R	GL3E306/GL3E305	V _R = 4V	—	—	10	μA
	Per decimal point		GL3E306, GL3E305	V _R = 4V	—	—	10	
※2 Response frequency		f _c	GL3E306, GL3E305	—	—	4	—	MHz

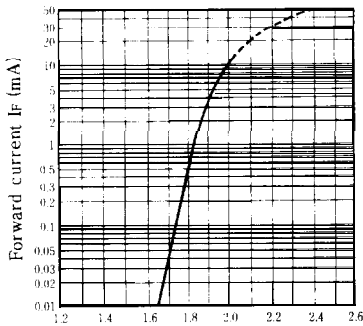
※2 Per segment, or per decimal point

※5 Tolerance: ±30%

■ Characteristics Diagrams

Forward Current vs. Forward Voltage

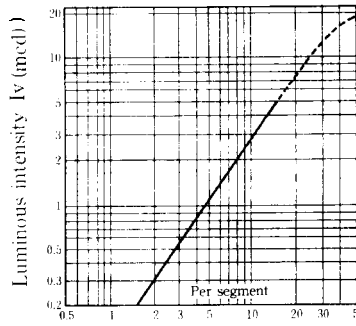
(Ta = 25°C)



Forward voltage V_F (V)

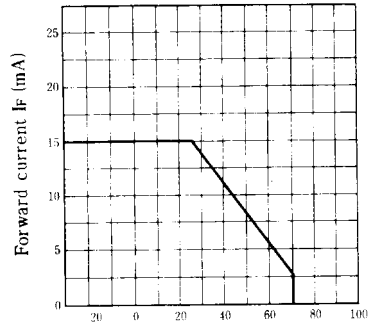
Luminous Intensity vs. Forward Current

(Ta = 25°C)



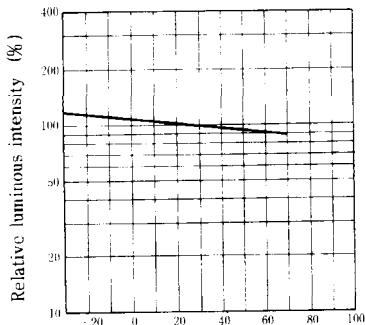
Forward current I_F (mA)

Forward Current Derating Curve



Ambient temperature Ta (°C)

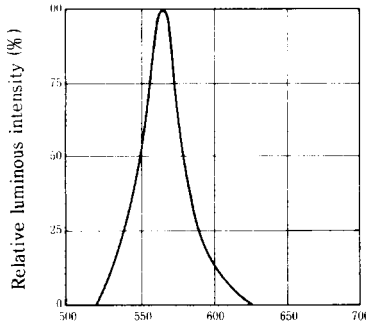
Relative Luminous Intensity vs. Ambient Temperature (I_F = 10mA)



Ambient temperature Ta (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)