

GL7 □ 208U /

7.6mm Character Height

GL60208u Series Numeric LEDs

■ Model No.

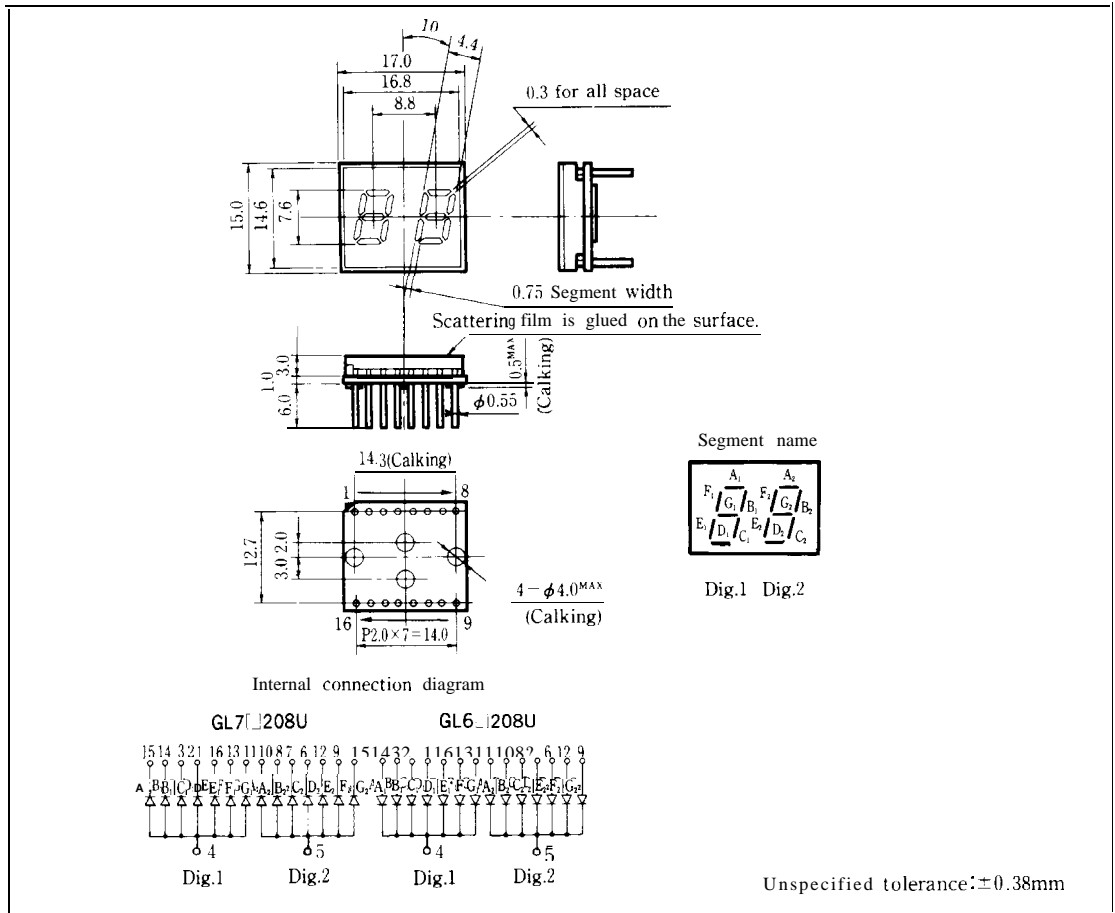
GL7P208U/GL6P208U	Red	GaP
GL7D208U/GL6D208U	Red	GaAsP/GaP
GL7E208U/GL6E208U	Yellow-green	GaP

■ Features

1. Character height : 7.6mm
2. 2 digits
3. Substrate type
4. Diamond cut type segments

■ Outline Dimensions

(Unit: mm)



5

GL7□208U / GL6□208U

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter		Symbol	GL7P208U GL6P208U	GL7E208U GL6E208U			Unit
			GL7D208U GL6D208U				
Power dissipation	XI Per digit	P	263	263			mW
Continuous forward current	*1 Per digit	I _F	105	105			mA
	*2	I _F	15	15			mA
*3 Peak forward current	*2	I _{FM}	50	50			mA
Derating factor	*2 DC		0.15	0.15			mA/°C
	*2 Pulse	—	1.11	1.11			mA/°C
Reverse voltage	Per segment	V _R	5	5			v
	Per decimal point	V _R	—	—			v
Operating temperature		T _{opr}	-10 to +60				°C
Storage temperature		T _{stg}	-20 to +70				°C
*4 Soldering temperature		T _{sol}	260 (within 3 seconds)				°C

*1 Per digit: 7 segments

*2 Per segment

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

*4 At the position of 1.0 mm from the bottom face of substrate

GL7P208U/GL6P208 U(Red) , GL7D208U/GL6D208 U(Red)

■ Electro-optical Characteristics

(Ta=25°C)

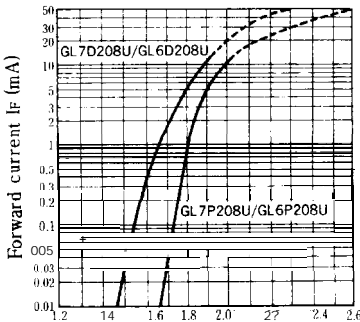
Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V _F	GL7P208U/GL6P208U	I _F = 5mA	—	1.9	2.5	V
	Per decimal point		GL7D208U/GL6D208U	I _F = 10mA	—	1.85	2.5	
※5 Luminous intensity	Per segment	I _V	GL7P208U/GL6P208U	I _F = 5mA	0.08	0.20	—	mcd
	Per decimal point		GL7D208U/GL6D208U	I _F = 10mA	0.1	0.4	—	
※2 Peak emission wavelength		λ _p	GL7P208U/GL6P208U	I _F = 5mA	—	695	—	‘m
			GL7D208U/GL6D208U	I _F = 10mA	—	635	—	
※2 Spectrum radiation bandwidth		Δλ	GL7P208U/GL6P208U	I _F = 5mA	—	100	—	‘m
			GL7D208U/GL6D208U	I _F = 10mA	—	35	—	
Reverse current	Per segment	I _R	GL7P208U/GL6P208U	V _R = 4V	—	—	10	μA
	Per decimal point		GL7D208U/GL6D208U	V _R = 4V	—	—	10	
※2 Response frequency		f _c	GL7P208U/GL6P208U	—	—	4	—	MHz
			GL7D208U/GL6D208U	—	—	4	—	

※2 Per segment

※5 Tolerance: ±30%

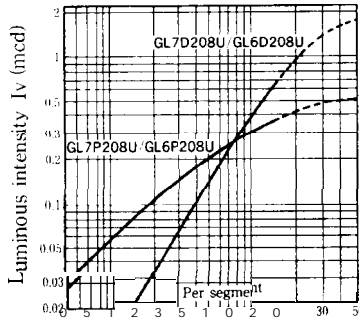
■ Characteristics Diagrams

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



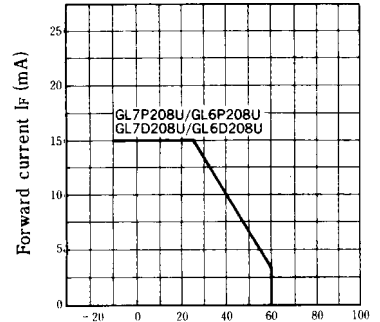
Forward voltage V_F (V)

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



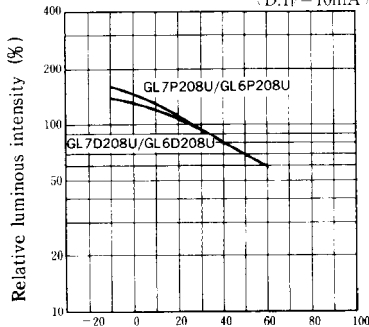
Forward current I_F (mA)

Forward Current Derating Curve



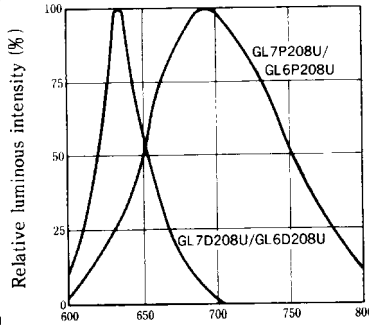
Ambient temperature T_a (°C)

Relative Luminous Intensity vs. Ambient Temperature (P: I_F = 5mA, D: I_F = 10mA)



Ambient temperature T_a (°C)

Spectrum Distribution (Ta=25°C)



Wavelength λ (nm)

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GL7E208U/GL6E208U(Yellow-green)

● Electro-optical Characteristics

(Ta = 25°C)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V _F	GL7E208U/GL6E208U	I _F = 10mA	—	2.0	2.5	V
	Per decimal point		—	—	—	—	—	v
*5 Luminous intensity	Per segment	I _V	GL7E208U/GL6E208U	I _F = 10mA	0.2	0.6	—	mcd
	Per decimal point		—	—	—	—	—	mcd
*2 Peak emission wavelength		λ _p	GL7E208U/GL6E208U	I _F = 10mA	—	565	—	*m
*2 Spectrum radiation bandwidth		Δλ	GL7E208U/GL6E208U	I _F = 10mA	—	30	—	nm
Reverse current	Per segment	I _R	GL7E208U/GL6E208U	V _R = 4V	—	—	10	μA
	Per decimal point		—	—	—	—	—	μA
*2 Response frequency		f _c	GL7E208U/GL6E208U	—	—	4	—	MHz

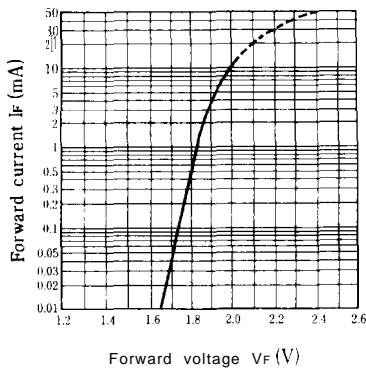
*2 Per segment

*5 Tolerance: ±30%

● Characteristics Diagrams

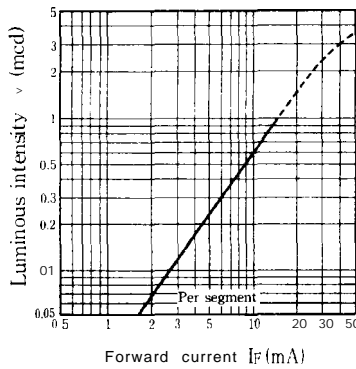
Forward Current vs. Forward Voltage

(Ta = 25°C)

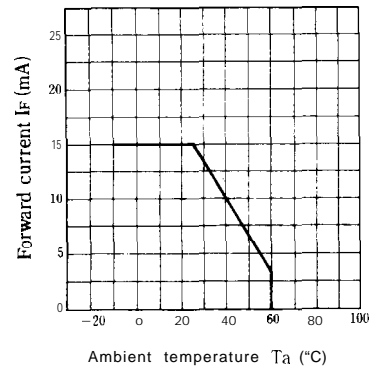


Luminous Intensity vs. Forward Current

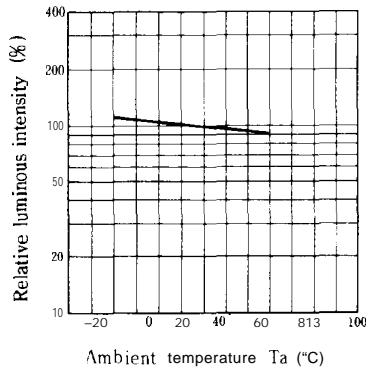
(Ta = 25°C)



Forward Current Derating Curve



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



Spectrum Distribution

(Ta = 25°C)

