GL7n210/ GL6□ 210 Series

1 4.22mm Character Height Numeric LEDs

■ Model No.

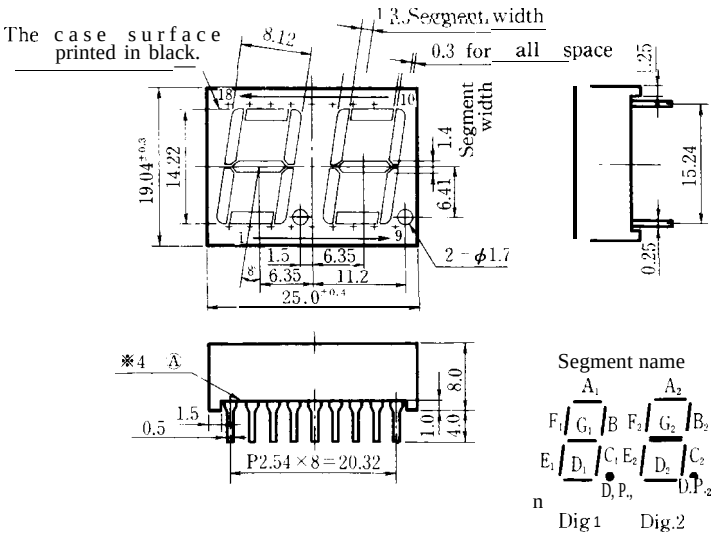
GL7P210/GL6P210	Red	GaP
GL7D210/GL6D210	Red	GaAsP/GaP

■ Features

1. Character height : 14.22mm
2. 2 digits
3. Case mold type
4. Small package

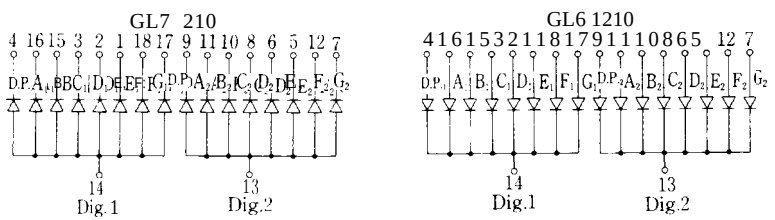
■ Outline Dimensions

(Unit: mm)



xGL7D21O/GL6D210: gray

Internal connection diagram



Unspecified tolerance : ±0.38mm

GL7U21O / GL6D21O

■ Absolute Maximum Ratings

(Ta = 25℃)

Parameter			Symbol	GL7P210 GL6P210	GL7D210 GL6D210				Unit
Power dissipation	XI 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		0.27	0.36				mA/℃
		Pulse	–	0.91	0.91				mA/℃
Reverse voltage	Per segment		V_R	5	5				V
	Per decimal point		V_R	5	5				V
Operating temperature			T_{opr}	–30 to +70					℃
Storage temperature			T_{stg}	–40 to +80					℃
※4 Soldering temperature			T_{sol}	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

5

GL7P210/GL6P210(Red) ,GL7D210/GL6D210(Red)

■ Electro-optical Characteristics

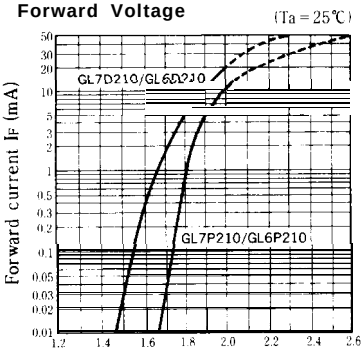
(Ta=25℃)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V_F	GL7P210/GL6P210	I_F=5mA	–	1.9	2.5	V
			GL7D210/GL6D210	I_F=10mA	–	1.85	2.3	
	Per decimal point		GL7P210/GL6P210	I_F=5mA	–	1.9	2.5	V
			GL7D210/GL6D210	I_F=10mA	–	1.85	2.3	
※5 Luminous intensity	Per segment	I_V	GL7P210/GL6P210	I_F=5mA	0.3	1.0	–	mcd
			GL7D210/GL6D210	I_F=10mA	1.01	3.7	–	
	Per decimal point		GL7P210/GL6P210	I_F=5mA	0.15	0.3	–	mcd
			GL7D210/GL6D210	I_F=10mA	0.6	1.4	–	
※2 Peak emission wavelength		λ_p	GL7P210/GL6P210	I_F=5mA	–	695		‘m
			GL7D210/GL6D210	I_F=10mA	–	635	–	
※2 Spectrum radiation bandwidth		$\Delta\lambda$	GL7P210/GL6P210	I_F=5mA	–	100	–	‘m
			GL7D210/GL6D210	I_F=10mA	–	35	–	
Reverse current	Per segment	I_R	GL7P210/GL6P210	V_R=4V		–	10	μA
			GL7D210/GL6D210	V_R=4V		–	10	
	Per decimal point		GL7P210/GL6P210	V_R=4V	–	–	10	μA
			GL7D210/GL6D210	V_R=4V		–	10	
※2 Response frequency		f_c	GL7P210/GL6P210	–	–	4	–	MHz
			GL7D210IGL6D210	–		4	–	

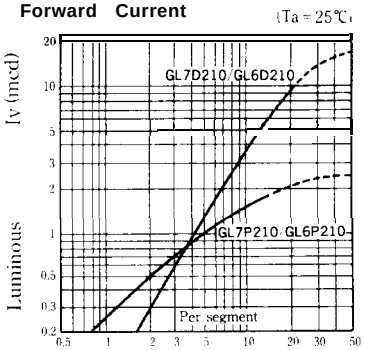
※2 Per segment, or per decimal point
※5 Tolerance: ±30%

■ Characteristics Diagrams

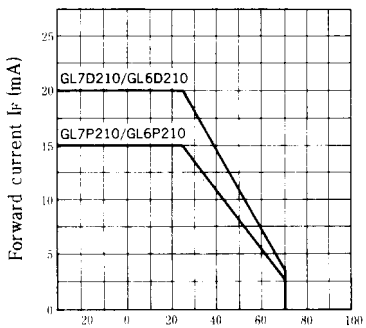
Forward Current vs. Forward Voltage



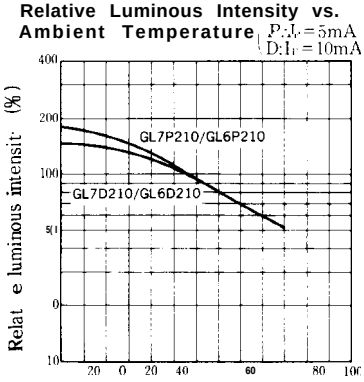
Luminous Intensity vs. Forward Current



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution