GL7□ 201/ GL6□ 201 Series

10.1 6mm Character Height Numeric LEDs

■ Model No.

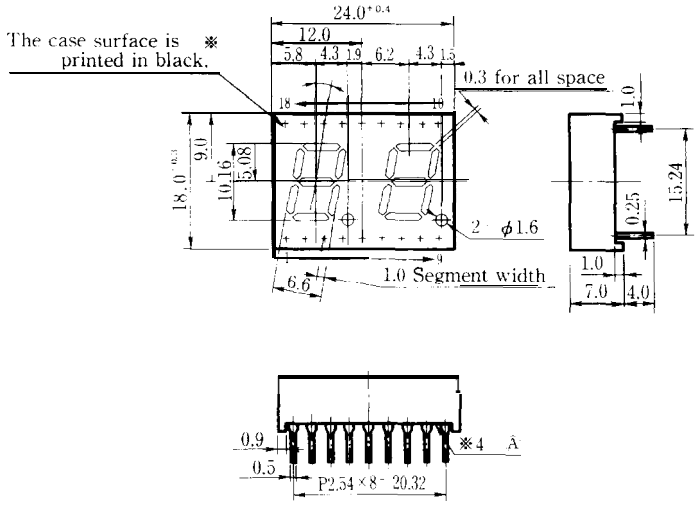
GL7P201/GL6P201	Red	GaP
GL7D201/GL6D201	Red	GaAsP/GaP
GL7H201/GL6H201	Yellow	GaAsP/GaP
GL7E201/GL6E201	Yellow-green	GaP

■ Features

1. Character height : 10.16mm
2. 2 digits
3. Case mold type
4. Diamond cut type segments

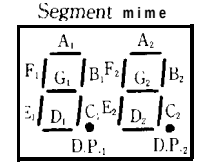
■ Outline Dimensions

(Unit: mm)



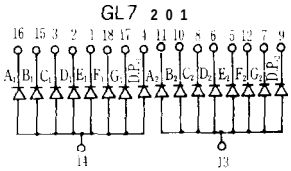
※GL7D201, GL6D201 gray

Segment mime

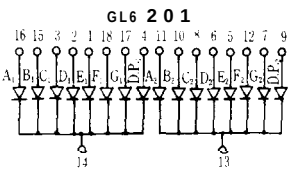


Dig.1 Dig.2

Internal connection diagram



Dig. 1 Dig. 2



Dig. 1 Dig. 2

Unspecified tolerance : ±0.38mm

GL7□201 / GL6□201

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter			Symbol	GL7P201 GL6P201	GL7D201 GL6D201	GL7H201 GL6H201	GL7E201 GL6E201		Unit
Power dissipation	※1 Per digit		P	175	322	350	263		mW
Continuous forward current	※1 Per digit		I_F	70	140	140	105		mA
	※2		I_F	10	20	20	15		mA
※3 Peak forward current	※2		I_{FM}	50	50	50	50		mA
Derating factor	※2	DC	–	0.18	0.36	0.36	0.27		mA/℃
		Pulse	–	0.91	0.91	0.91	0.91		mA/℃
Reverse voltage	Per segment		V_R	5	5	5	5		V
	Per decimal point		V_R	5	5	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

GL7P201/GL6P201 (Red), GL7D201/GL6D201 (Red)

■ Electro-optical Characteristics

(Ta=25°C)

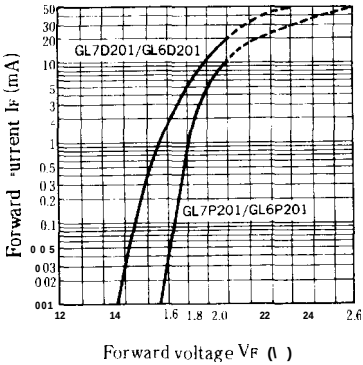
Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V_F	GL7P201/GL6P201	I_F=5mA	–	1.9	2.5	V
			GL7D201/GL6D201	I_F=10mA	–	1.85	2.3	
	Per decimal point		GL7P201/GL6P201	I_F=5mA		1.9	2.5	V
			GL7D201/GL6D201	I_F=10mA	–	1.85	2.3	
※5 Luminous intensity	Per segment	I_V	GL7P201/GL6P201	I_F=5mA	0.15	0.30	–	mcd
			GL7D201/GL6D201	I_F=10mA	1.14	3.8	–	
	Per decimal point		GL7P201/GL6P201	I_F=5mA	0.06	0.12	–	mcd
			GL7D201/GL6D201	I_F=10mA	0,55	1.8	–	
※2 Peak emission wavelength		λ_p	GL7P201/GL6P201	I_F=5mA		695	–	‘m
			GL7D201/GL6D201	IF= 10mA	–	635	–	
※2 Spectrum radiation bandwidth		$\Delta\lambda$	GL7P201/GL6P201	I_F=5mA	–	100	–	‘m
			GL7D201/GL6D201	IF= 10mA	–	35	–	
Reverse current	Per segment	I_R	GL7P201/GL6P201	V_R=4V	–	–	10	μA
			GL7D201/GL6D201	V_R=4V	–	–	10	
	Per decimal point		GL7P201/GL6P201	V_R=4V	–		10	μA
			GL7D201/GL6D201	V_R=4V	–	–	10	
※2 Response frequency		f_c	GL7P201/GL6P201	–	–	4	–	MHz
			GL7D201/GL6D201	–	–	4	–	

※2 Per segment, or per decimal point

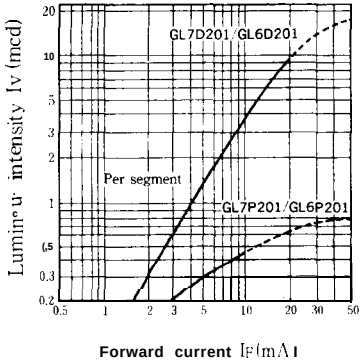
※5 Tolerance: ±30%

■ Characteristics Diagrams

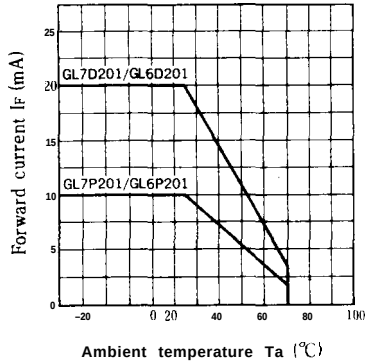
Forward Current vs. Forward Voltage



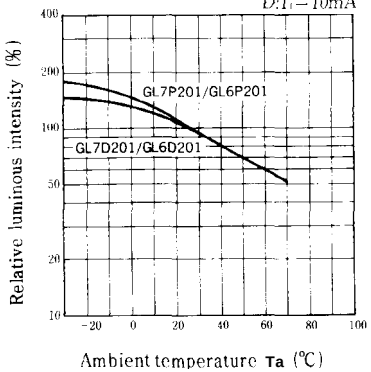
Luminous Intensity vs. Forward Current



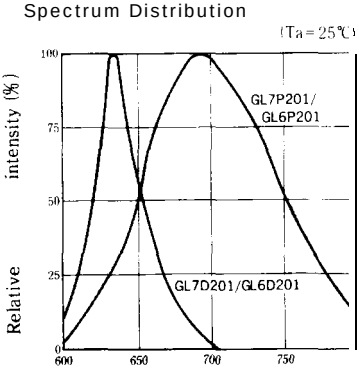
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature, P: IF=5mA D: IF=10mA



Spectrum Distribution



GL7H201/GL6H201 (Yellow)

■ Electro-optical Characteristics

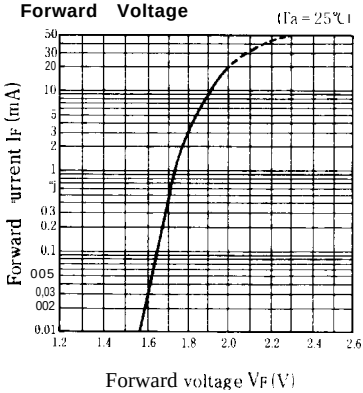
(Ta=25°C)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V_F	GL7H201/GL6H201	I_F=10mA	–	1.9	2.5	V
	Per decimal point		GL7H201/GL6H201	I_F=10mA	–	1.9	2.5	V
※5 Luminous intensity	Per segment	I_V	GL7H201/GL6H201	I_F=10mA	0.45	1.35	–	mcd
	Per decimal point		GL7H201/GL6H201	I_F=10mA	0.15	0,45	–	mcd
※2 Peak emission wavelength		λ_p	GL7H201/GL6H201	I_F=10mA		585	–	nm
※2 Spectrum radiation bandwidth		$\Delta\lambda$	GL7H201/'GL6H201	I_F=10mA		30	–	nm
Reverse current	Per segment	I_R	GL7H201/GL6H201	V_R=4V	–	–	10	μA
	Per decimal point		GL7H201/GL6H201	V_R=4V		·	10	μA
※2 Response frequency		f_c	GL7H201/GL6H201	–		4	–	MHz

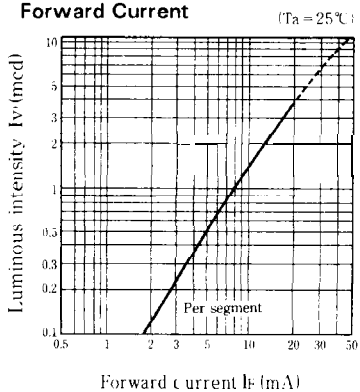
※2 Per segment, or per decimal point
※5 Tolerance: ±30%

■ Characteristics Diagrams

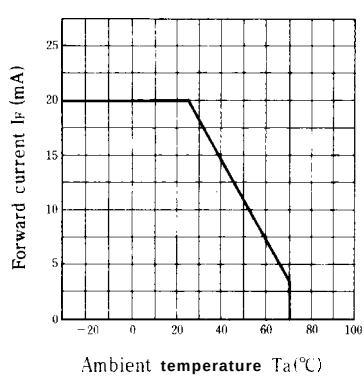
Forward Current vs. Forward Voltage



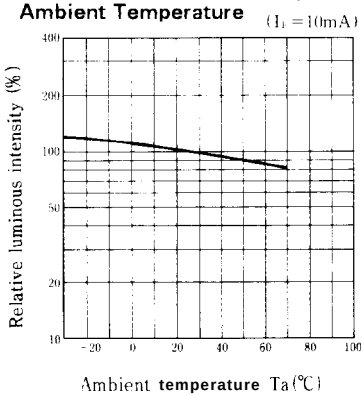
Luminous Intensity vs. Forward Current



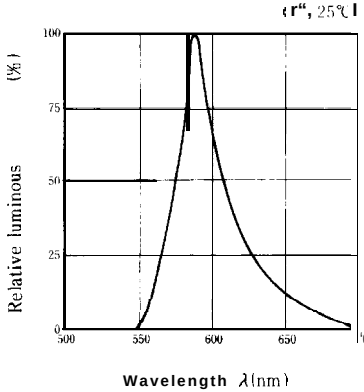
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



GL7E201/**GL6E201** (Yellow-green)

■ **Electro-optical** Characteristics

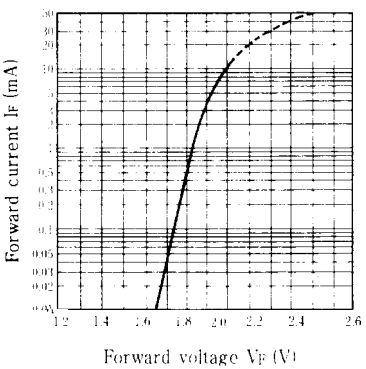
(Ta=25"C)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	V_F	GL7E201/GL6E201	I_F=10mA	–	2.0	2.5	V
	Per decimal point		GL7E201 GL6E201	I_F=10mA		2.0	2.5	V
※5 Luminous intensity	Per segment	I_V	GL7E201 GL6E201	I_F=10mA	1.3	3.0	–	mcd
	Per decimal point		GL7E201 GL6E201	I_F=10mA	0.5	1.2	–	mcd
※2 Peak emission wavelength		λ_p	GL7E201/GL6E201	I_F=10mA	–	565	–	nm
※2 Spectrum radiation bandwidth		$\Delta\lambda$	GL7E201/GL6E201	I_F=10mA		30	–	nm
Reverse current	Per segment	I_R	GL7E201/GL6E201	V_R=4V		–	10	μA
	Per decimal point		GL7E201/GL6E201	V_R=4V	–	–	10	μA
※2 Response frequency		f_c	GL7E201 GL6E201	–	–	4	–	MHz

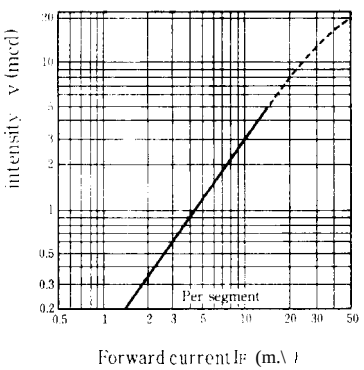
※2 Per segment, or per decimalpoint
※5 Tolerance: ±30%

■ Characteristics Diagrams

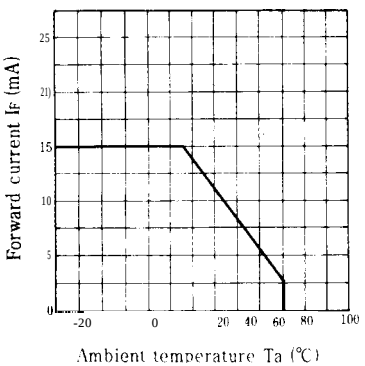
Forward Current vs. Forward Voltage



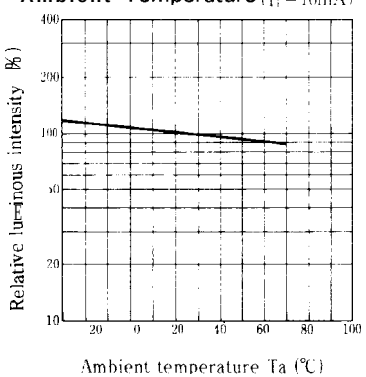
Luminous Intensity vs. Forward Current



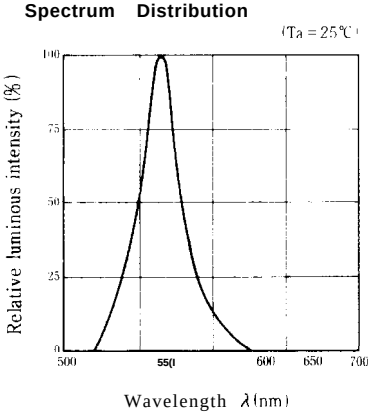
Forward Current Derating Curve



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



Spectrum Distribution



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