

Super-luminosity/High-luminosity Numeric LED

Super-luminosity/High-luminosity Numeric LED Figures shown below are values per segment. (Ta=25°C)

Digit	Type	Character height (mm)	Type of display	Common pins	U (Red)		T (Red)		Outline dimensions	
					Model No.	Luminous intensity (mcd)	Model No.	Luminous intensity (mcd)		
						TYP.		TYP.	Page	Figure
1-digit	Mold Type	8.0		A			GL9T030	4.0	→	10
				K			GL8T030	4.0		
		10.16		A			GL9T040	4.25		9
				K			GL8T040	4.25		
		14.12		A			GL9T156	5.25		8
				K			GL8T156	5.25		
		20.32		A			GL9T08	2.2		6
				K			GL8T08	2.2		
		25.4		A	GL9U100	35.0	GL9T100	9.5	→	4
				K	GL8U100	35.0	GL8T100	9.5		
		38.1		A	GL9U15	27.0				3
				K	GL8U15	27.0				
	Substrate Type	76.0		A	GL9U30	(120)*			→	1
				K	GL8U30	(120)*				
Multi-digits	Mold Type	10.16		A			GL7T201	4.25	→	12
				K			GL6T201	4.25		
		8.0		A			GL3T422	1.5	→	19
				K			GL3T421	1.5		
		7.6		A			GL3T508D	1.5		21
				K			GL3T507D	1.5		

*1 A: Anode common K: Cathode common * Production after order confirmation
* As for current conditions, refer to If in electro-optical characteristics

Absolute Maximum Ratings Figures shown below are values per segment. (Ta=25°C)

Character height (mm)	Radiation color	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/ °C)		Reverse voltage VR (V)	Operating temperature Topr. (°C)	Storage temperature Tstg. (°C)
				DC	Pulse			
8.0/10.16/14.12/20.32	T	20	100	0.36	1.82	5	-30 to +70	-40 to +80
25.4, 38.1, 76.0	U	20	150*2	0.36	2.73	6	-30 to +70	-40 to +80
25.4, 38.1	T	20	100	0.36	1.82	5	-30 to +70	-40 to +80

*1 Duty ratio=1/10, Pulse width=0.1ms
*2 U type duty ratio=1/16, pulse width=0.1ms

Electro-optical Characteristics Figures shown below are values per segment. (Ta=25°C)

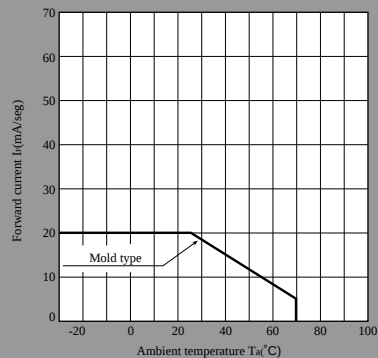
Character height (mm)	Radiation color	Forward current VF		Peak emission wavelength λp(nm)	Spectrum radiation bandwidth Δλ(nm)		Reverse current IR(μA)	
		TYP.	MAX		TYP.	IF (mA)	MAX.	VR (V)
8.0/10.16/14.12/20.32	T	1.7	2.2	660	20	10	10	4
25.4, 38.1, 76.0	U	3.5	4.8	660	20	10	100	5
25.4, 38.1	T	3.4	4.4	660	20	10	10	4

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(Internet) • Data for sharp's optoelectronic/power device is provided for internet.(Address <http://www.sharp.co.jp/ecg/>)

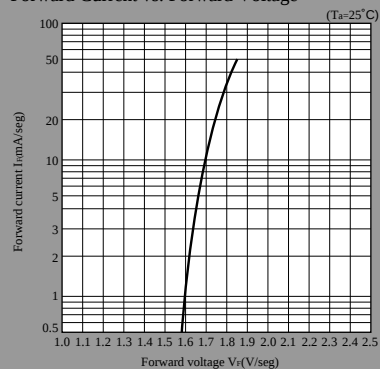
Numeric LED Characteristics Diagrams

T series

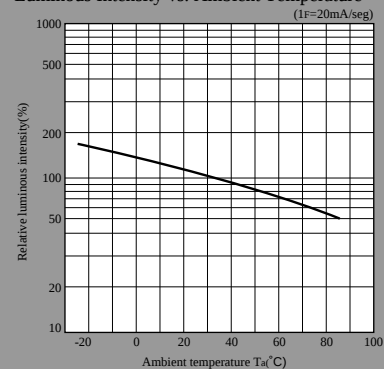
Forward Current Derating Curve



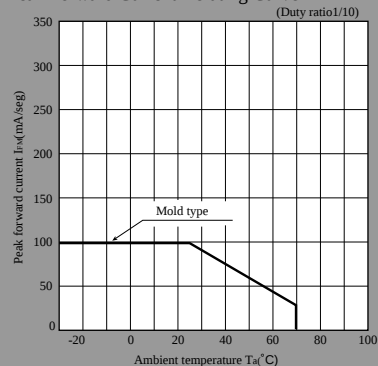
Forward Current vs. Forward Voltage*



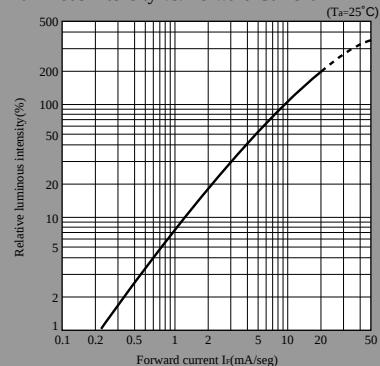
Luminous Intensity vs. Ambient Temperature



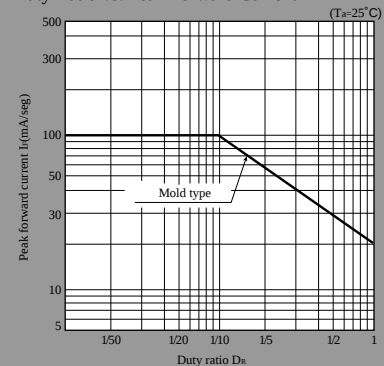
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current



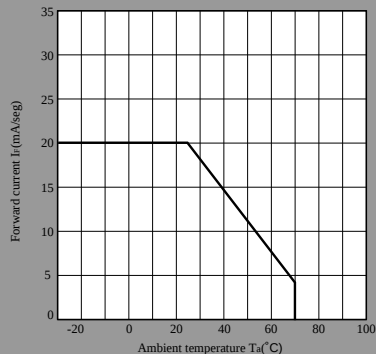
Duty Ratio vs. Peak Forward Current



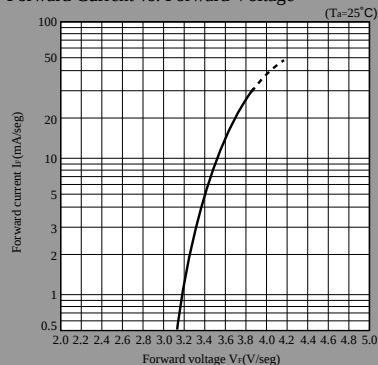
* In case of 25.4mm: value per 1segment 1chip

U series

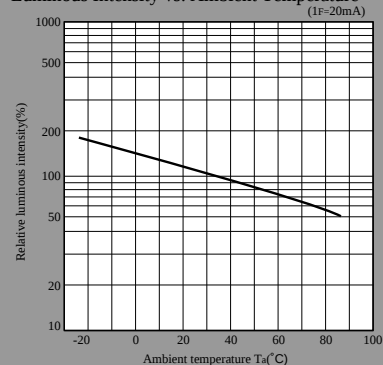
Forward Current Derating Curve



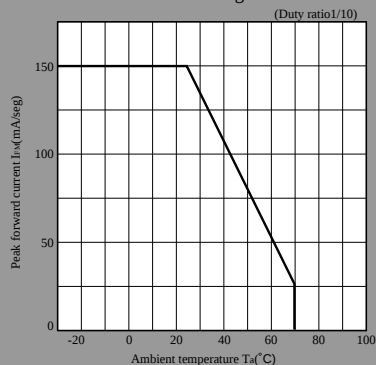
Forward Current vs. Forward Voltage*



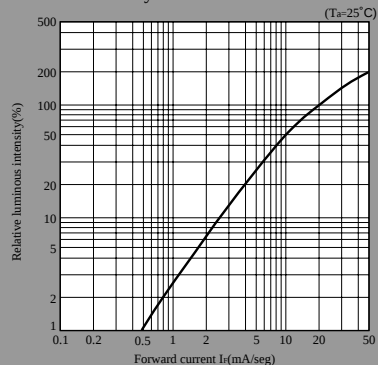
Luminous Intensity vs. Ambient Temperature



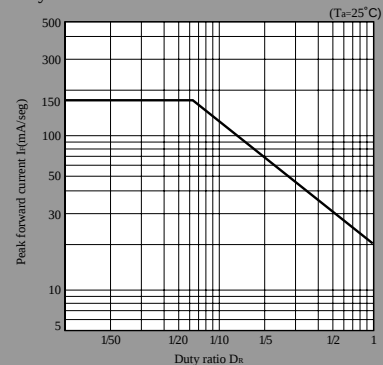
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Duty Ratio vs. Peak Forward Current



* In case of 25.4/38.1/76.0mm: value per 1segment 1chip

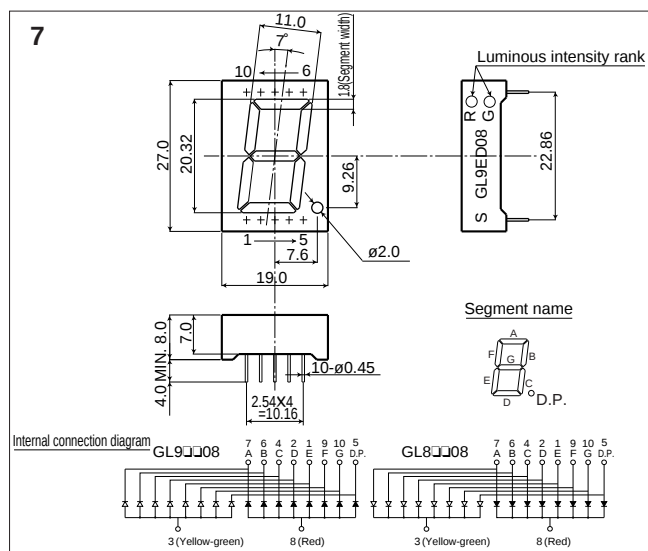
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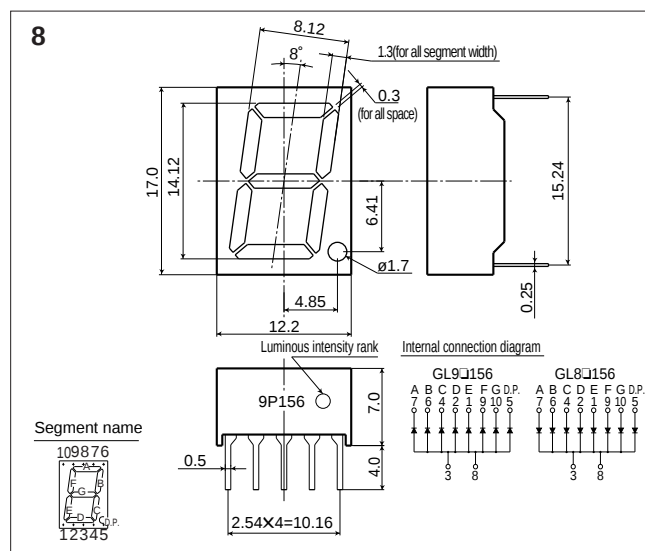
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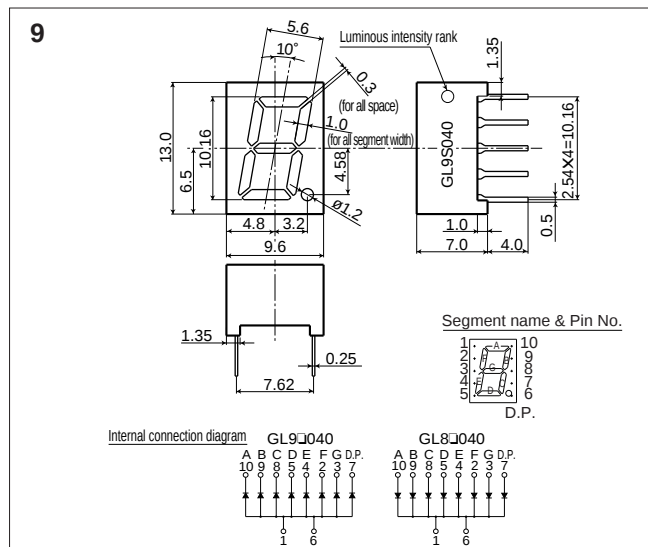
Numeric LED Outline Dimensions(Unit:mm)



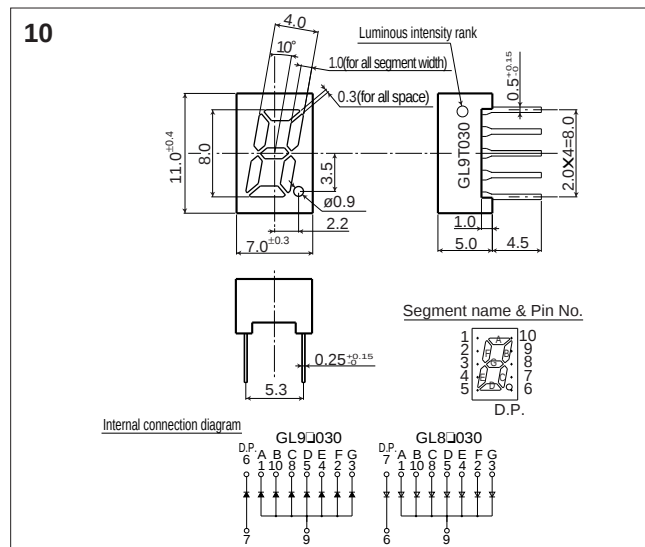
GL9□□08 Series GL8□□08 Series



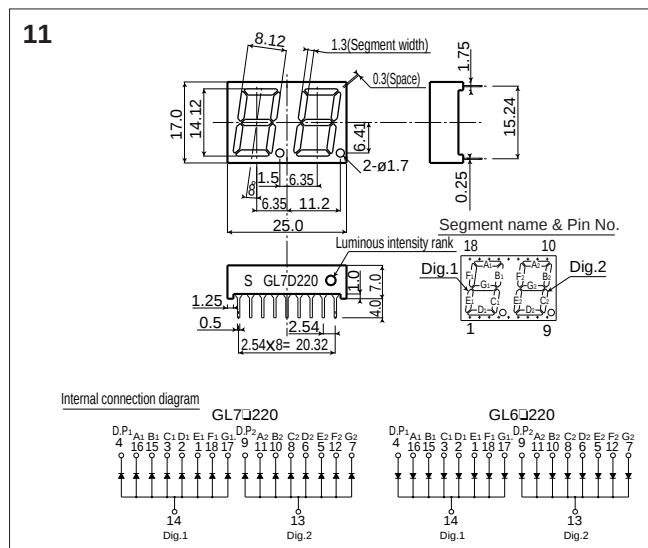
GL9□156 Series GL8□156 Series



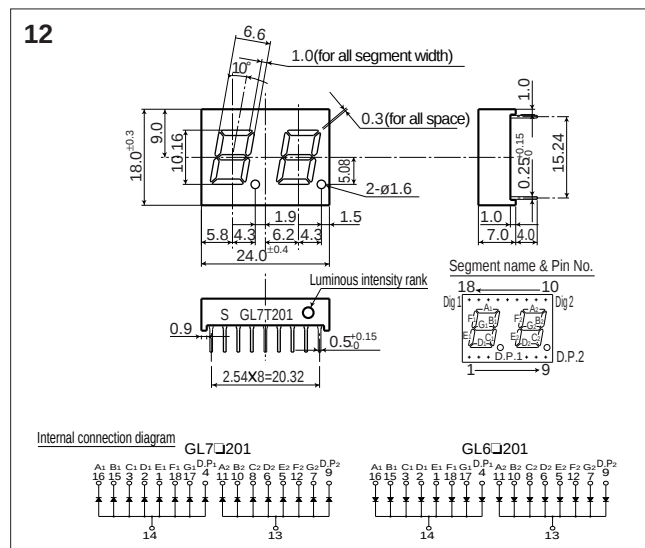
GL9□040 Series GL8□040 Series



GL9□030 Series GL8□030 Series



GL7□220 Series GL6□220 Series



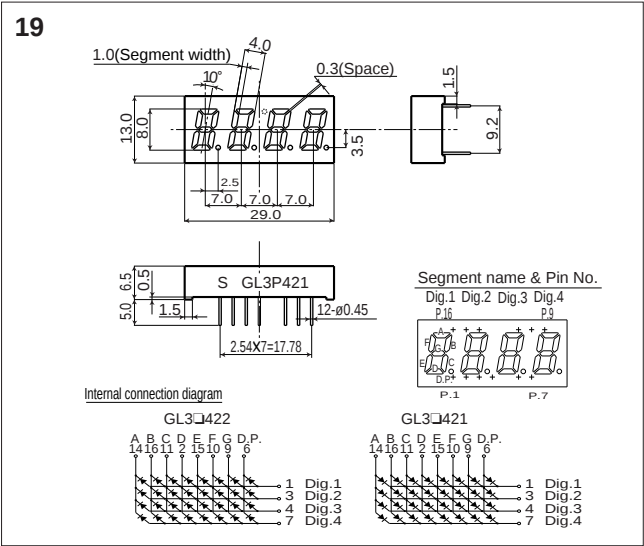
GL7□201 Series GL6□201 Series



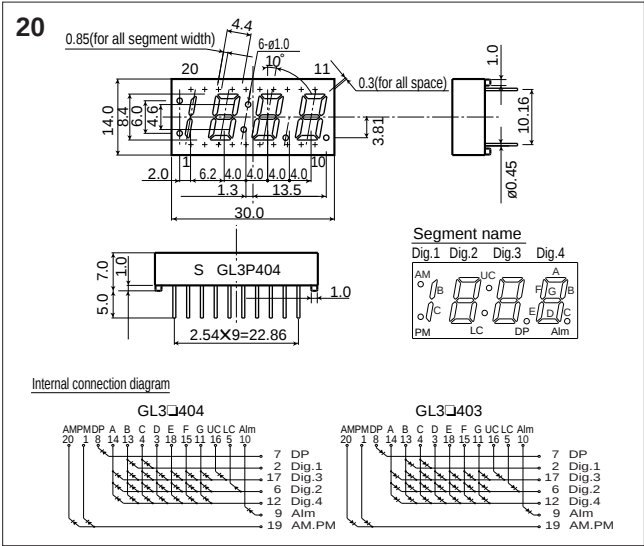
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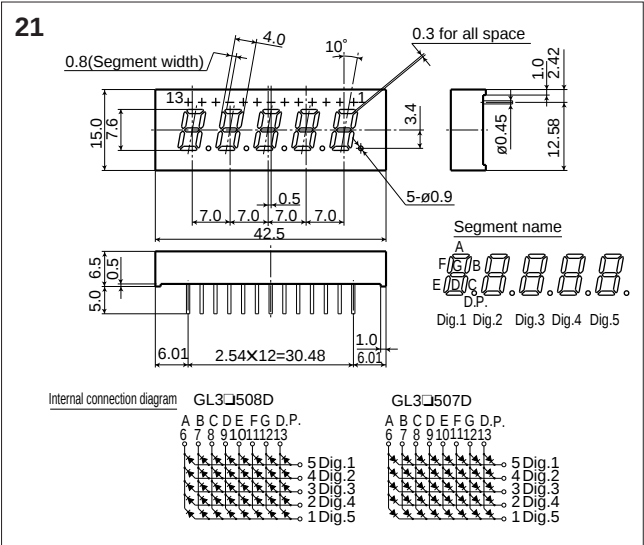
Numeric LED Outline Dimensions(Unit:mm)



GL3□422 Series GL3□421 Series



GL3□404 Series GL3□403 Series



GL3□508D Series GL3□507D Series

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