

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)	Page	Figure		
						TYP.		TYP.				
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 I_F in electro-optical characteristics

■ Absolute Maximum Ratings Figures shown below are values per segment.

(Ta=25°C)

Character height (mm)	Radiation color	Forward current I _F (mA)	Peak forward current I _{FM} ¹ (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°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.

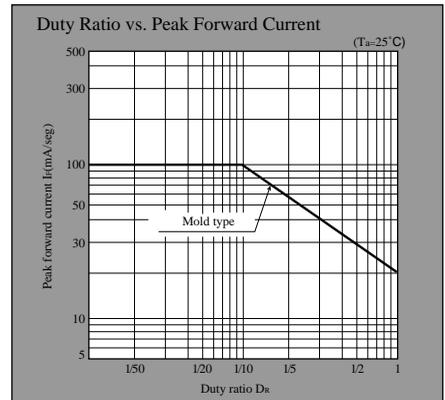
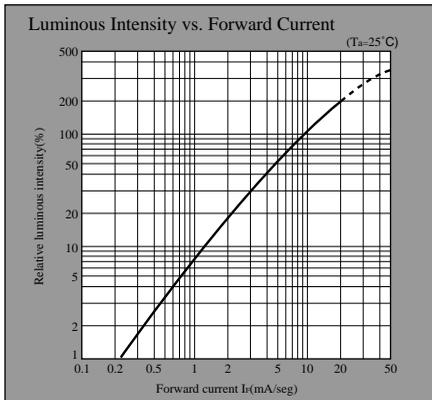
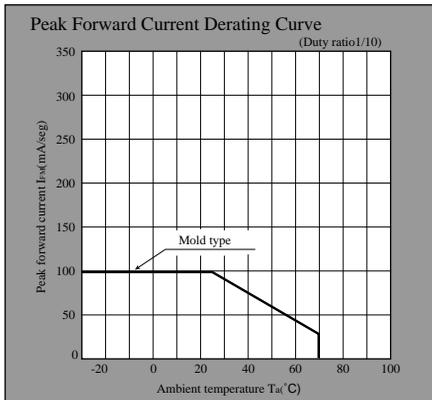
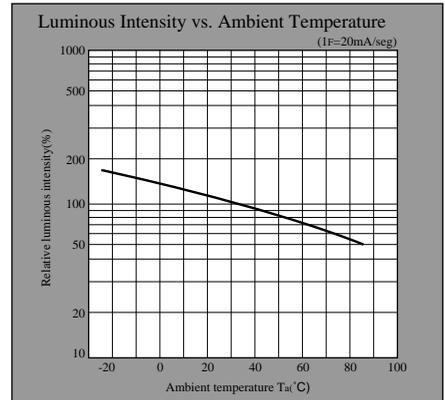
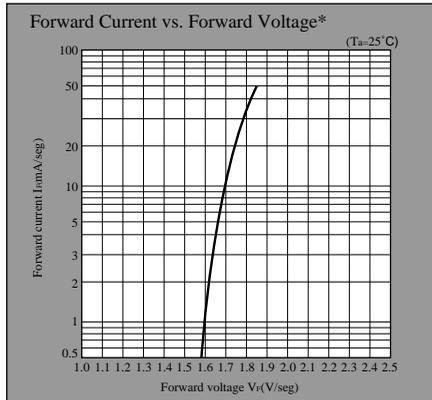
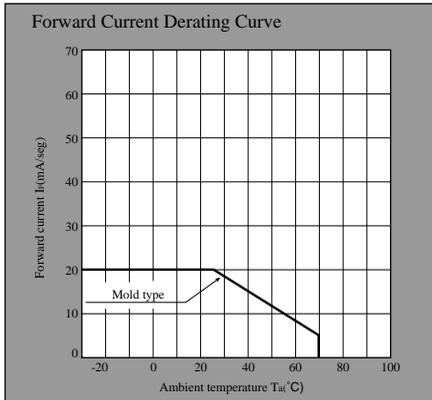
(Ta=25°C)

Character height (mm)	Radiation color	Forward current V _F		Peak emission wavelength λ _p (nm) TYP.	Spectrum radiation bandwidth Δλ(nm) TYP.	I _F (mA)	Reverse current	
		TYP.	MAX				I _R (μA) MAX.	V _R (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



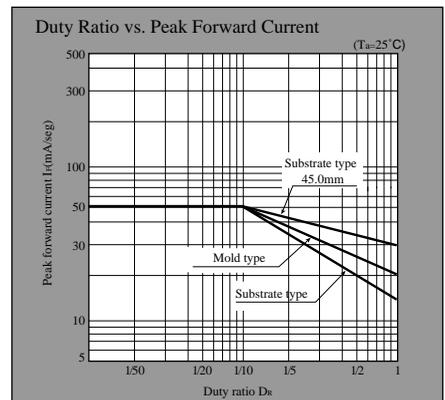
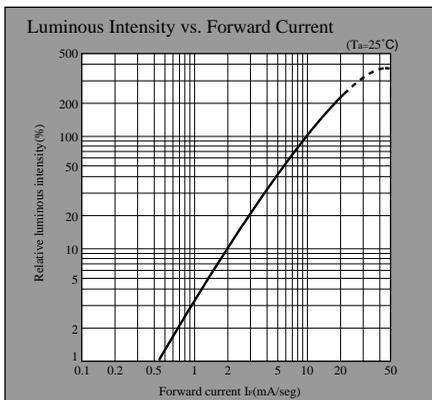
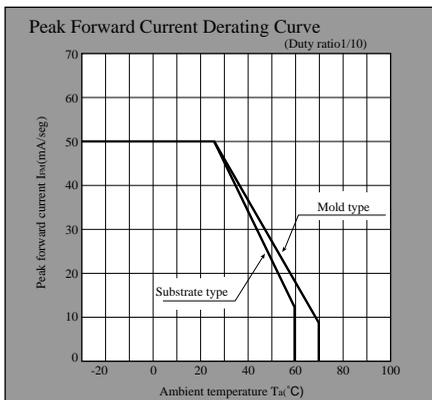
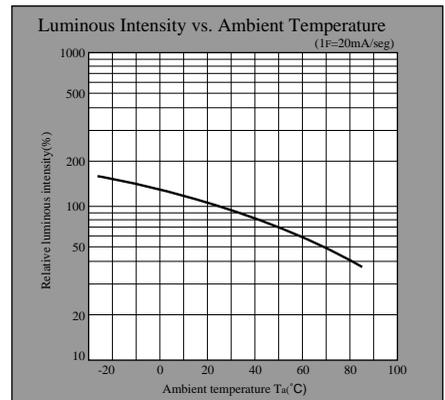
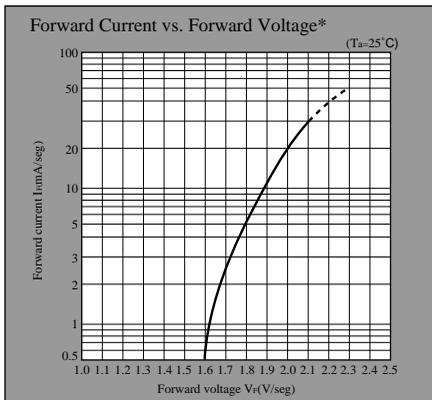
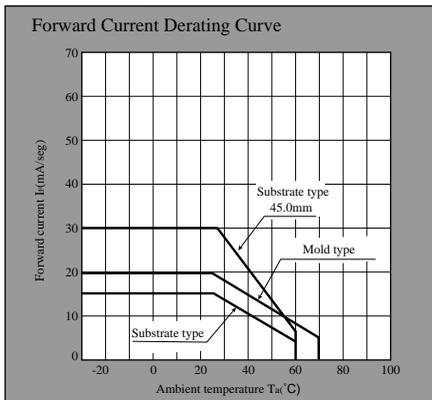
Numeric LED Characteristics Diagrams

T series



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

D series

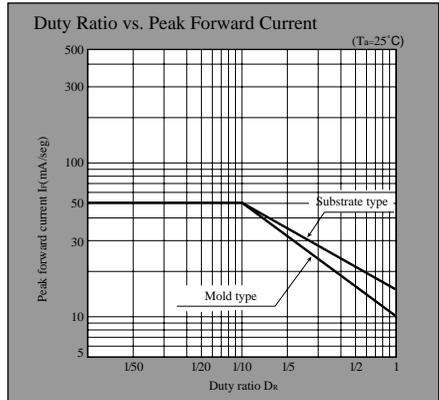
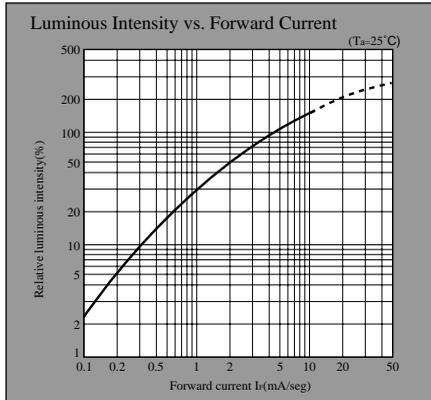
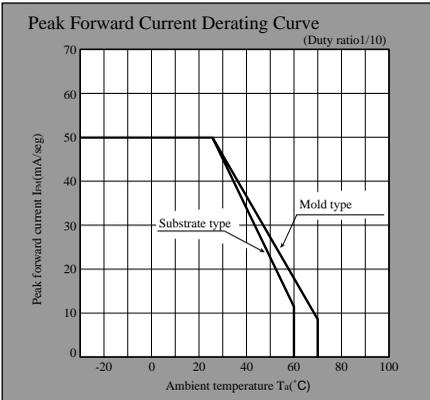
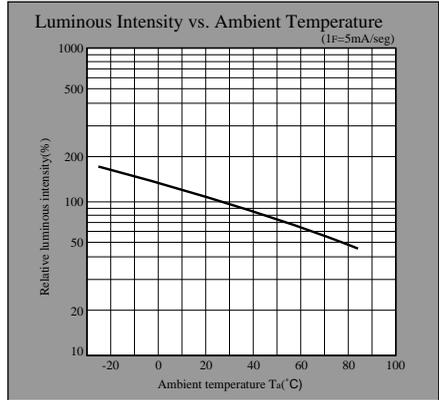
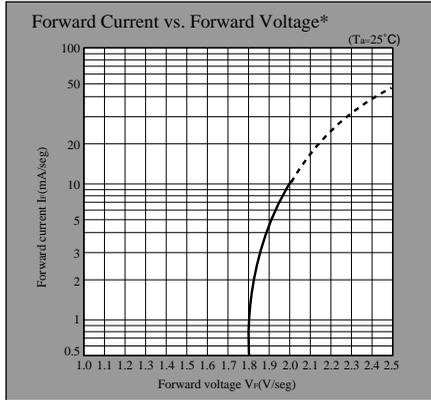
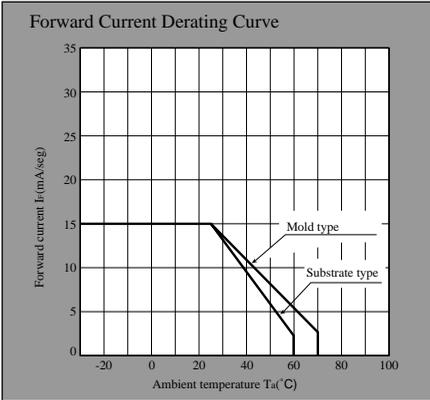


* In case of 25.4/45.0mm: value per 1segment 1chip

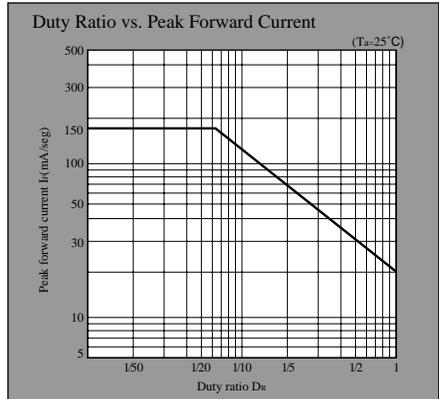
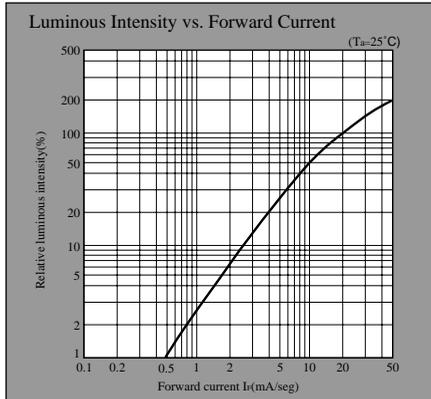
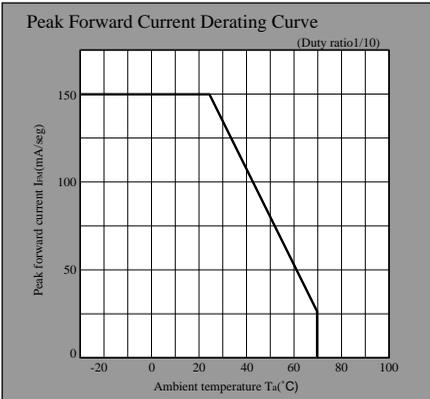
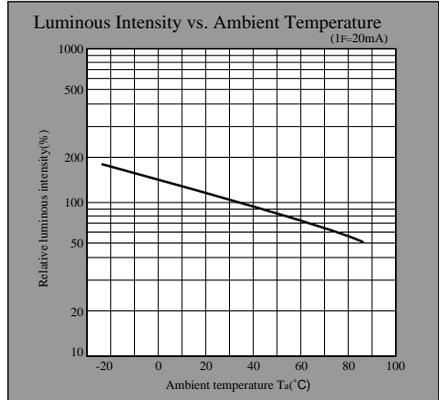
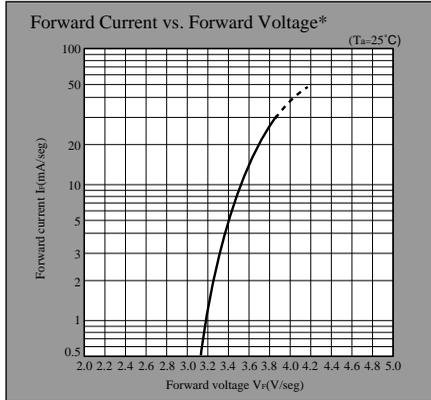
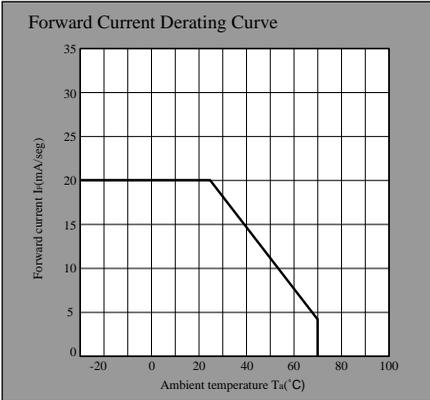
(Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

Numeric LED Characteristics Diagrams

P series

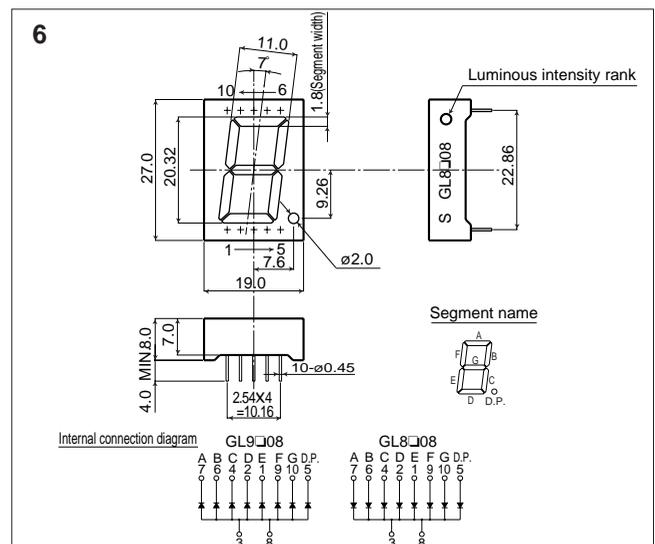
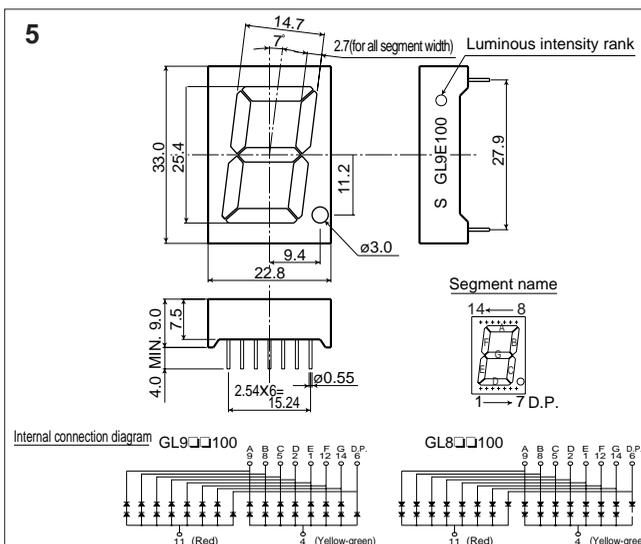
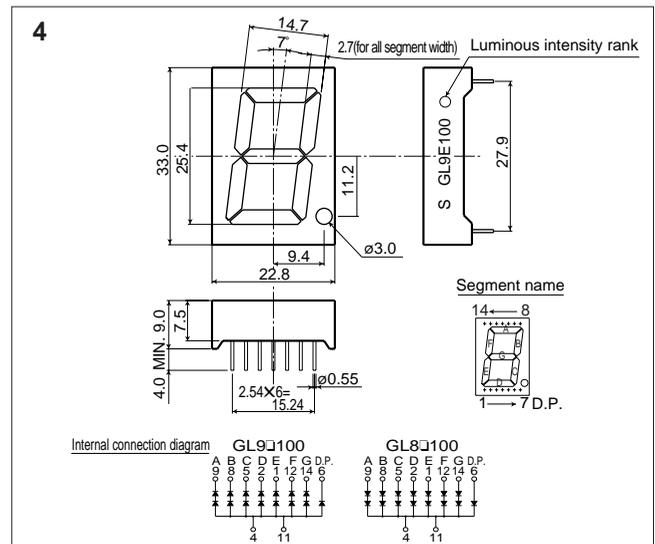
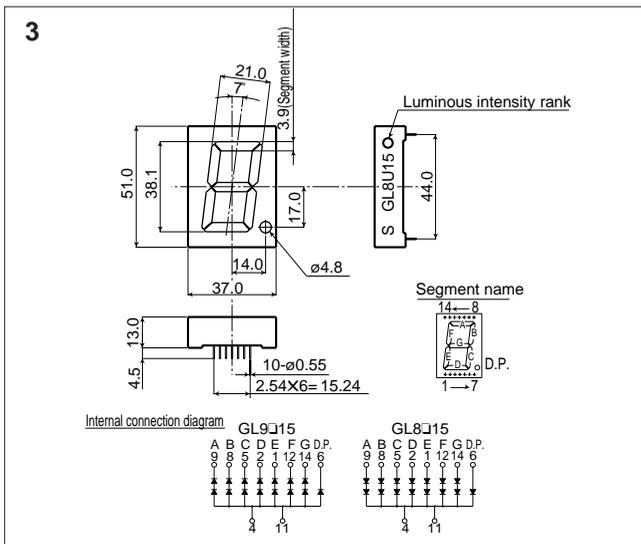
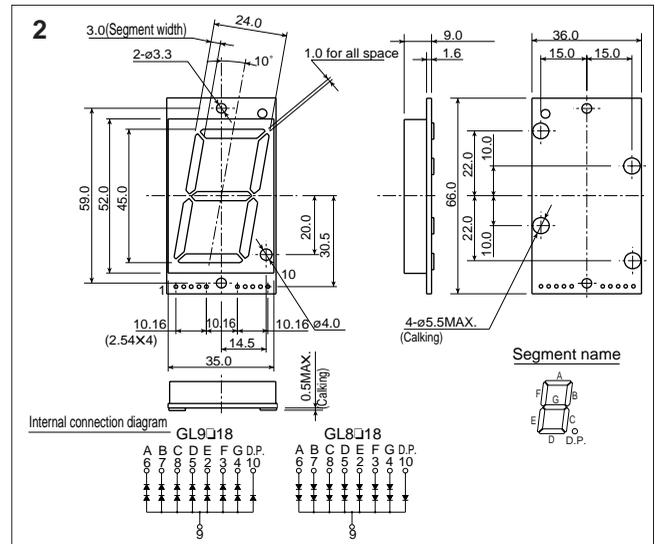
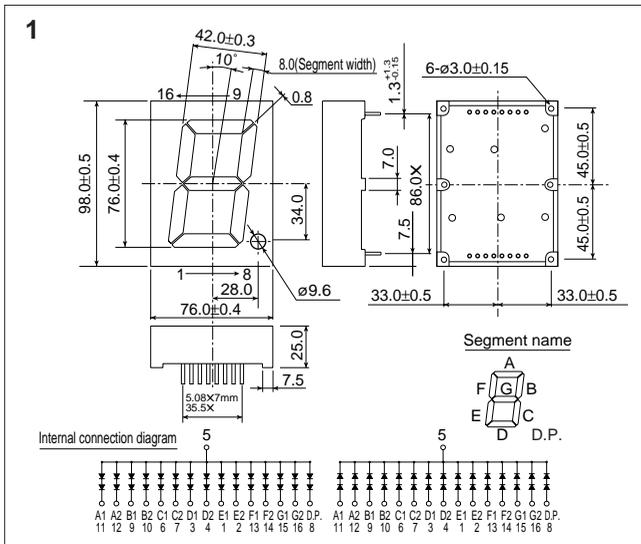


U series



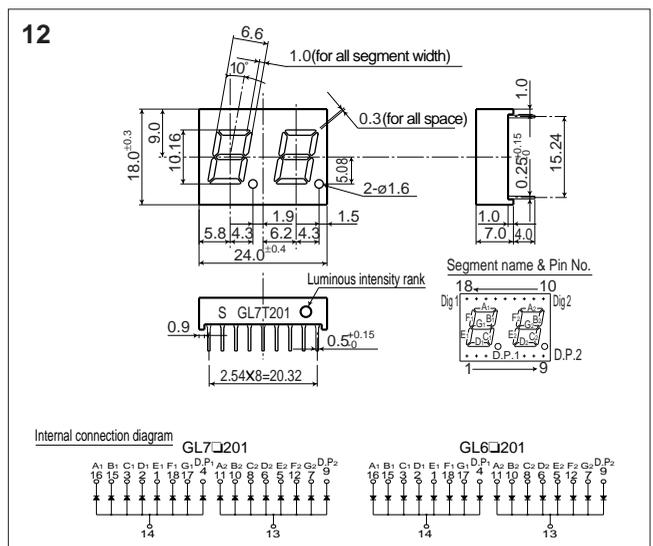
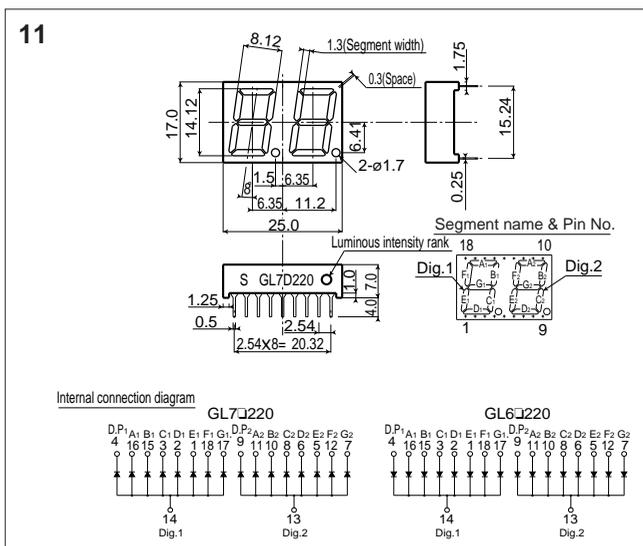
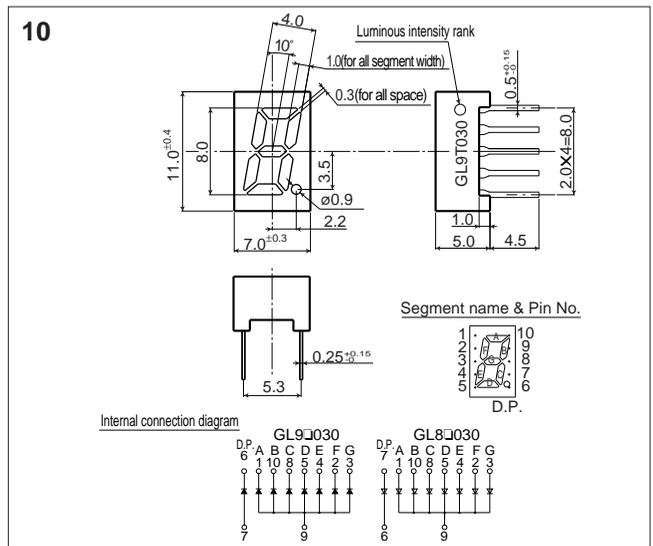
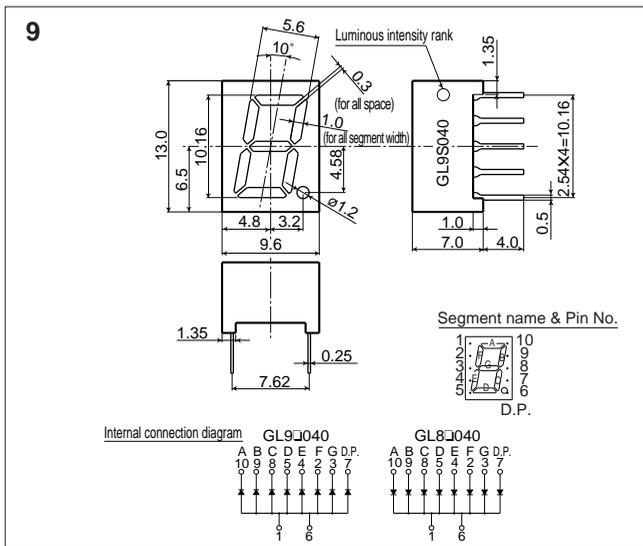
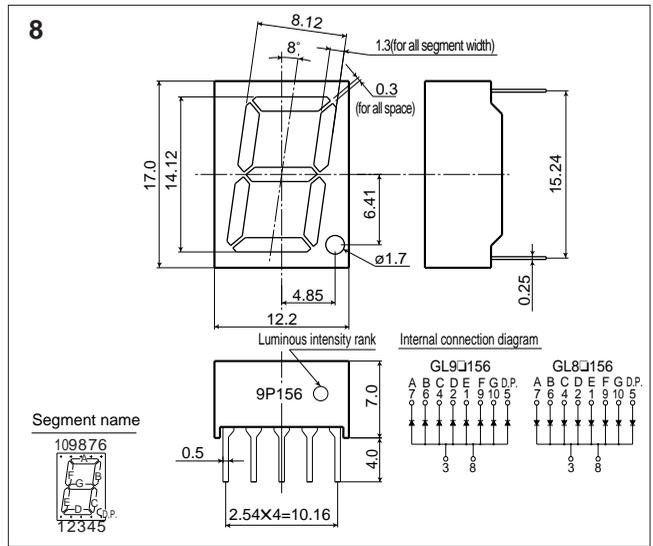
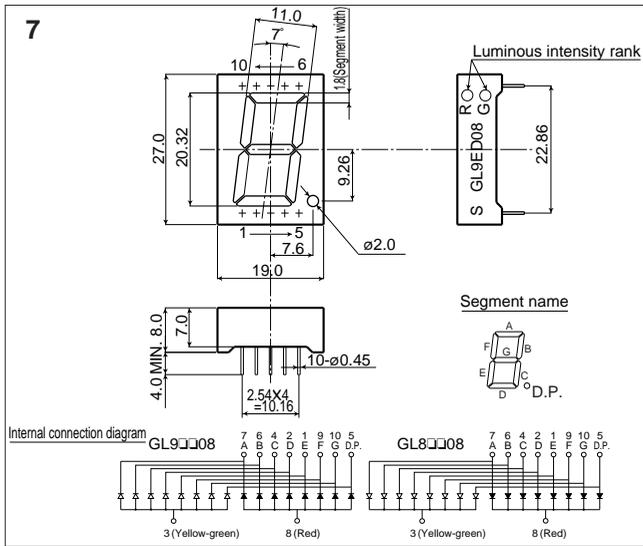
* In case of 25.4/38.1/76.0mm: value per 1segment 1chip

Numeric LED Outline Dimensions(Unit:mm)



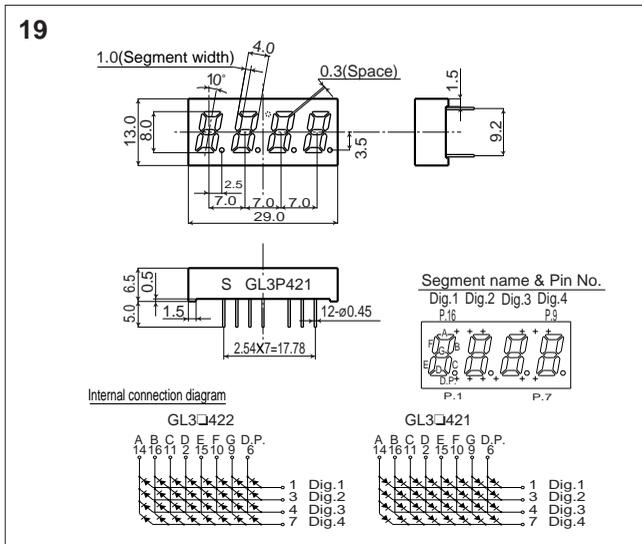
(Notice) ● In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

Numeric LED Outline Dimensions(Unit:mm)

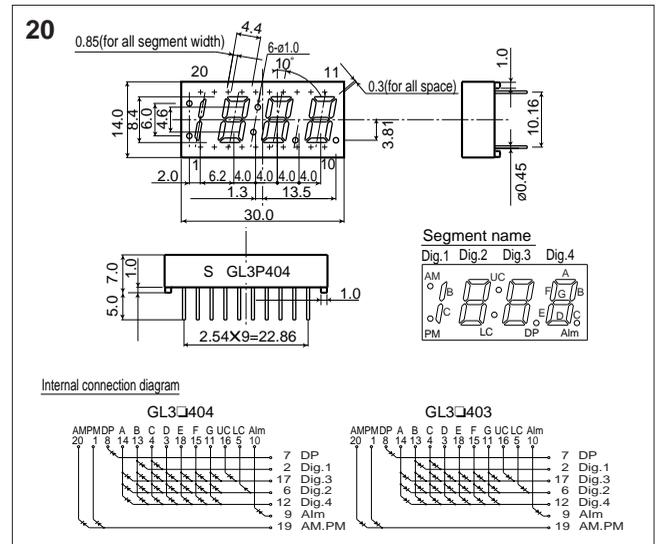


(Notice) ● In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

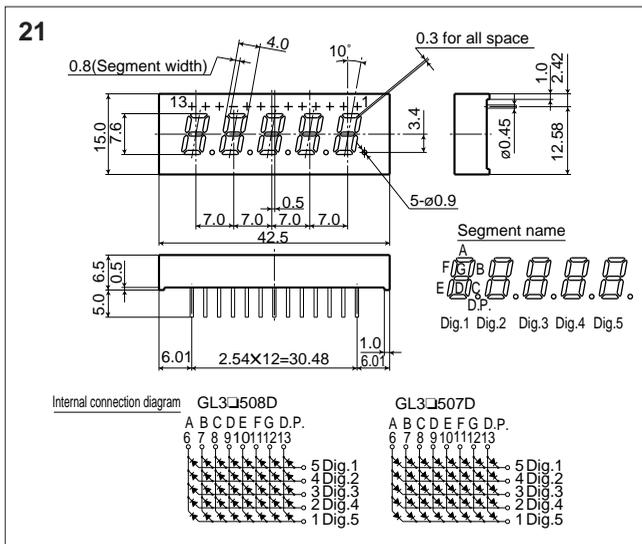
Numeric LED Outline Dimensions(Unit:mm)



GL3□422 Series GL3□421 Series



GL3□404 Series GL3□403 Series



GL3□508D Series GL3□507D Series