

Numeric LED

■ 1-digit

Type	Character height (mm)	Type of display	Common pins	Radiation color						Outline dimensions			
				P Red	D Red	S Sunset orange	H Yellow	E Yellow-green	K Green	Page	Figure		
Mold Type	8.0		A	GL9P030	GL9D030	GL9S030	GL9H030	GL9E030	GL9K030	→	10		
			K	GL8P030	GL8D030	GL8S030	GL8H030	GL8E030	GL8K030				
	10.16		A	GL9P040	GL9D040	GL9S040	GL9H040	GL9E040	GL9K040		→	9	
			K	GL8P040	GL8D040	GL8S040	GL8H040	GL8E040	GL8K040				
	14.12		A	GL9P156	GL9D156	GL9S156	GL9H156	GL9E156	GL9K156	→	8		
			K	GL8P156	GL8D156	GL8S156	GL8H156	GL8E156	GL8K156				
	25.4			A		GL9D100	GL9S100	GL9H100	GL9E100			→	4
				K		GL8D100	GL8S100	GL8H100	GL8E100				
45.0		A			GL9D18			GL9E18		→	2		
		K			GL8D18			GL8E18					
Page for ratings/characteristics diagrams				→	→	→	→	→	→				

*1 A: Anode common K: Cathode common

■ Absolute Maximum Ratings(Mold Type) Figures shown below are values per segment.

(Ta=25°C)

Character height (mm)	Radiation color	Forward current I _F (mA)	Peak forward current ^{*1} I _{FM} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°C)
				DC	Pulse			
6.0	P	10	50	0.18	0.91	5	-30 to +70	-40 to +80
6.2		(15) ^{*2}						
7.6	D	20	50	0.36	0.91	5	-30 to +70	-40 to +80
8.0								
8.4	S	20	50	0.36	0.91	5	-30 to +70	-40 to +80
10.16	H	20	50	0.36	0.91	5	-30 to +70	-40 to +80
14.12	E	15	50	0.27	0.91	5	-30 to +70	-40 to +80
20.32 (common)	K	15	50	0.27	0.91	5	-30 to +70	-40 to +80
25.4	D	20	50	0.36	0.91	6	-30 to +70	-40 to +80
	S	20	50	0.36	0.91	6	-30 to +70	-40 to +80
	H	20	50	0.36	0.91	6	-30 to +70	-40 to +80
	E	20	50	0.36	0.91	6	-30 to +70	-40 to +80

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

*2 (): figures for GL8/9P040, GL8/9P056, GL8/9P156, GL6/7P220

■ Absolute Maximum Ratings(Substrate Type) Figures shown below are values per segment.

(Ta=25°C)

Character height (mm)	Radiation color	Forward current I _F (mA)	Peak forward current ^{*1} I _{FM} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°C)
				DC	Pulse			
7.6	P	15	50	0.15	1.11	5	-10 to +60	-20 to +70
	D							
10.0	E	15	50	0.15	1.11	5	-10 to +60	-20 to +70
	D	30	50	0.67	1.11	5	-10 to +60	-20 to +70
45.0	E	20	50	0.44	1.11	5	-10 to +60	-20 to +70

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

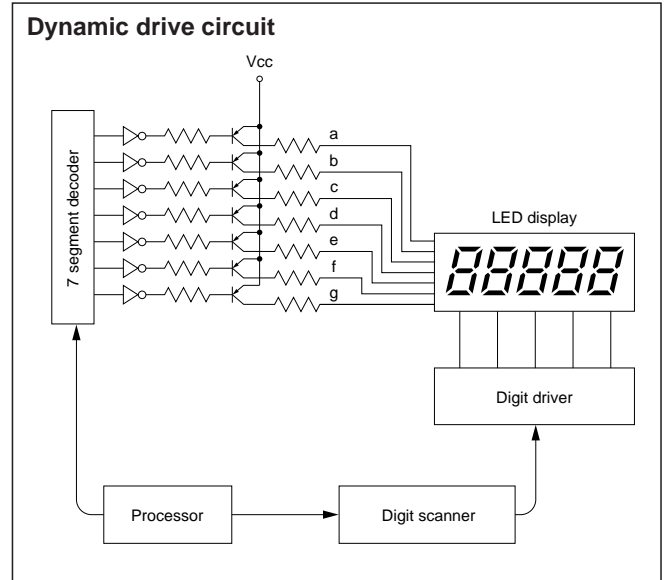
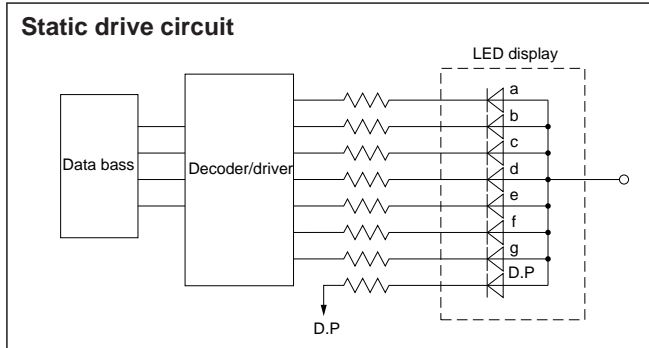
Numeric LED

■ **Luminous Intensity(Unit:mcd)** Figures shown below are values per segment.

(Ta=25°C)

Type	Digit	Character height (mm)	Radiation color		P	D	S	H	E	K
			Series		Red	Red	Sunset orange	Yellow	Yellow-green	Green
			Anode common	Cathode common	TYP	TYP	TYP	TYP	TYP	TYP
Mold Type	1-digit	8.0	GL9□030	GL8□030	1.0	4.14	1.5	2.6	2.5	1.56
		10.16	GL9□040	GL8□040	0.8	3.0	4.3	2.5	3.0	1.75
		14.12	GL9□156	GL8□156	1.0	4.0	3.9	4.5	3.0	2.1
		25.4	GL9□100	GL8□100		6.38	4.8	4.6	3.5	
	2-digits	6.0	GL7□202	GL6□202	0.3			0.35	1.8	
		10.16	GL7□201	GL6□201	0.8	3.8		4.1	3.5	
		14.12	GL7□220	GL6□220	1.0	4.0	4.5	4.5	3.0	
	3-digits	8.0	GL3□306	GL3□305	1.0	2.80			2.85	
		6.2	GL3□412	GL3□411	0.25			0.6	0.7	
	4-digits	8.0	GL3□422	GL3□421	0.66		1.25		2.2	
8.4		GL3□404	GL3□403	0.3	0.8			2.0		
7.6		GL3□508D	GL3□507D	0.3						
Substrate Type	1-digit	45.0	GL9□18	GL8□18		6.4			3.4	
	2-digits	7.6	GL7□208U	GL6□208U	0.2	0.4			0.6	
		10.0	GL3□202	GL3□201	0.4	0.6			1.0	
			GL7□206U	GL6□206U	0.4	0.6		1.0		

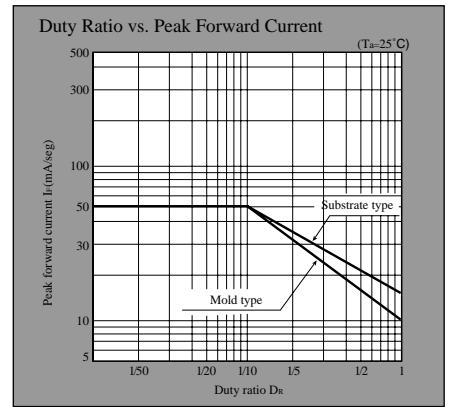
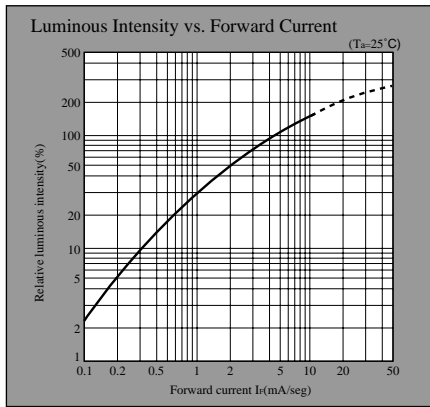
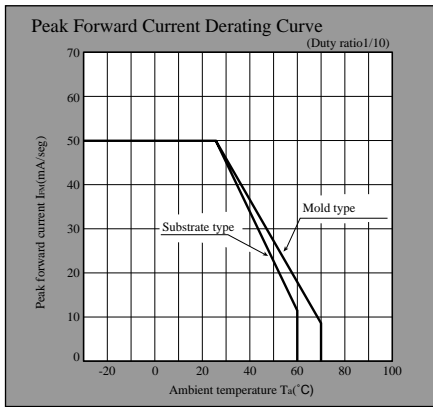
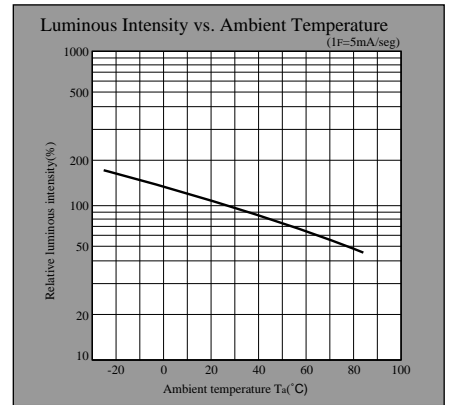
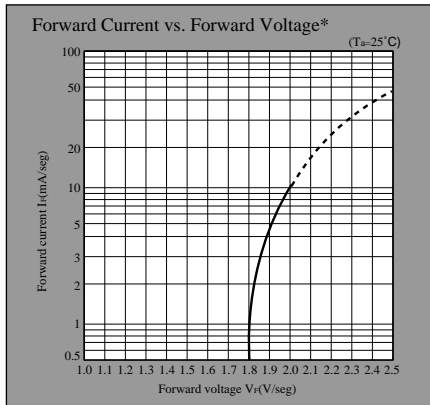
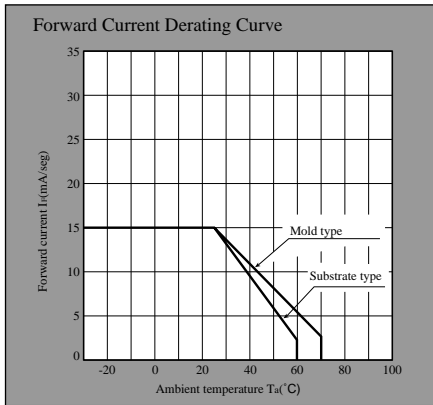
* As for current conditions, refer to I_F in electro-optical characteristics



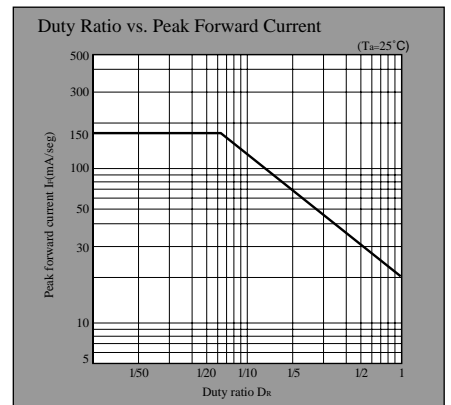
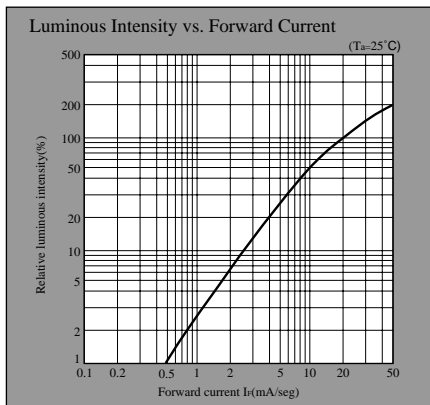
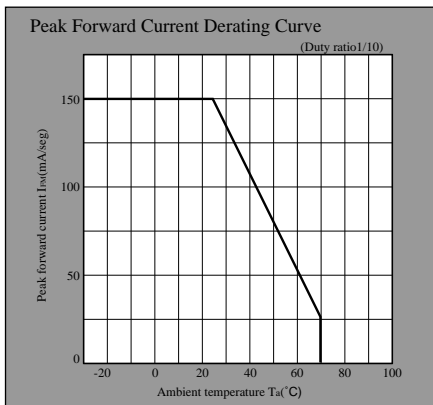
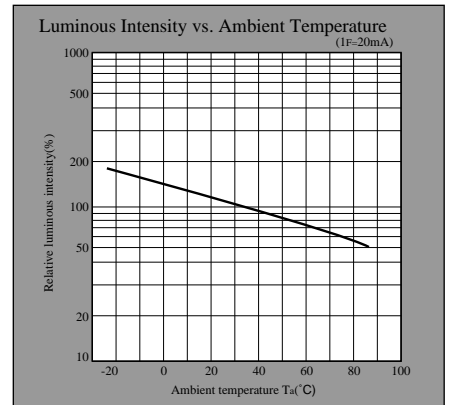
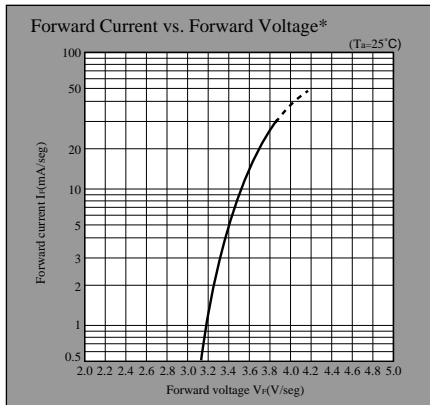
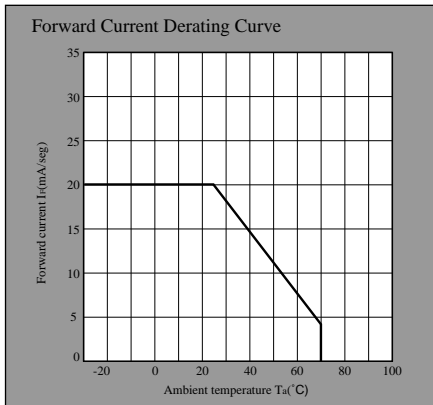
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Numeric LED Characteristics Diagrams

P series



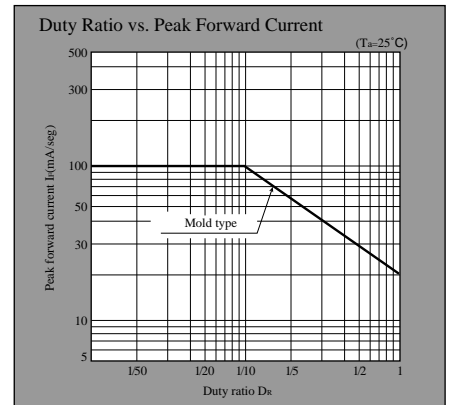
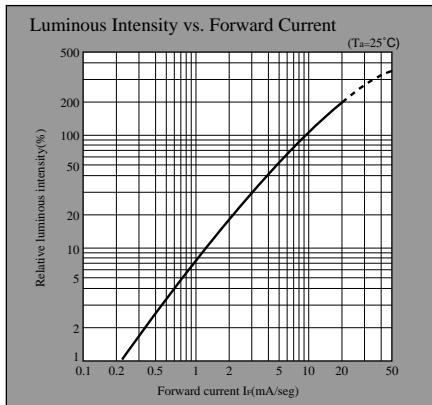
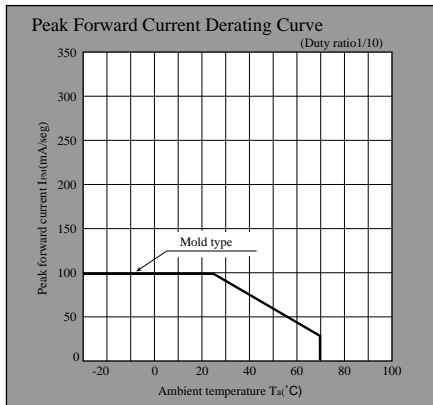
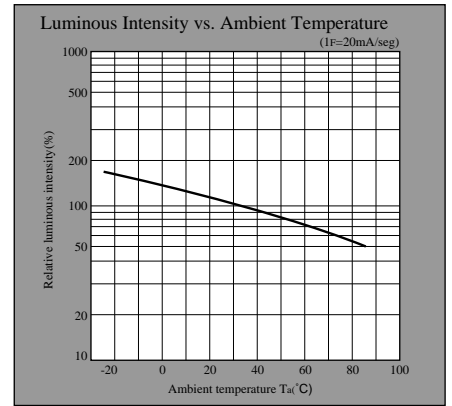
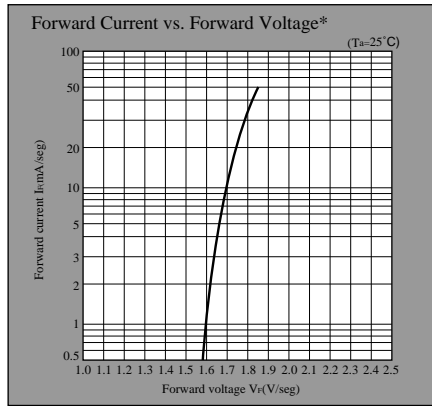
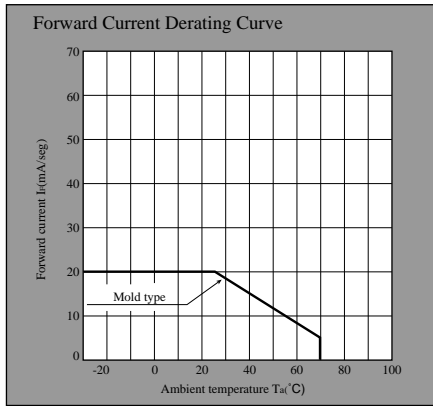
U series



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

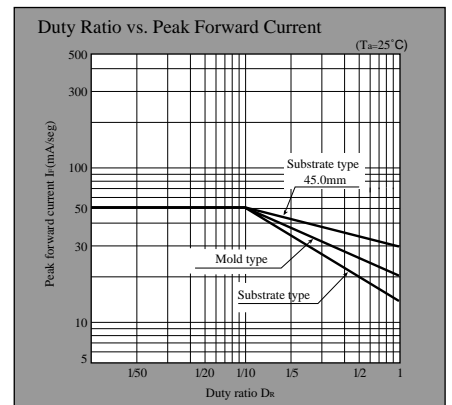
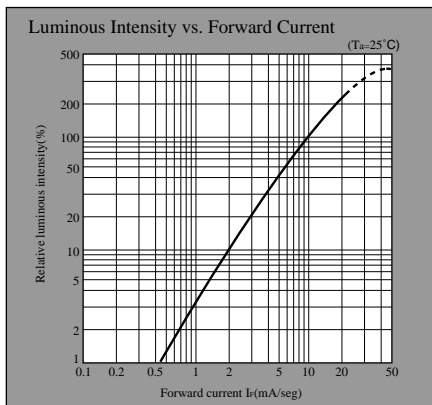
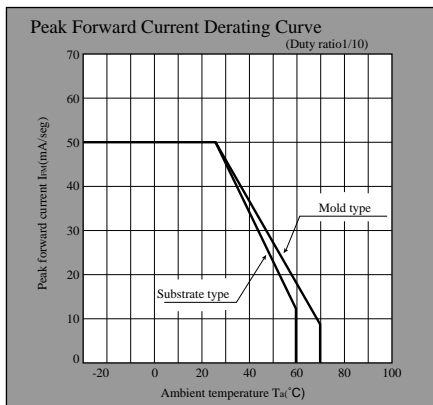
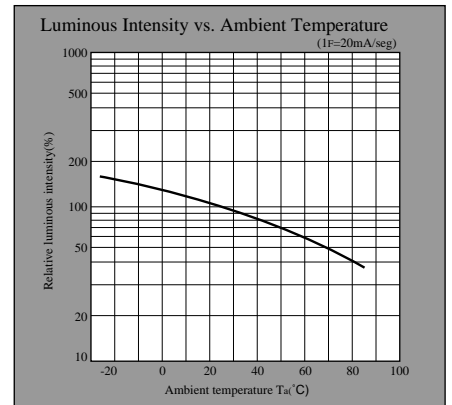
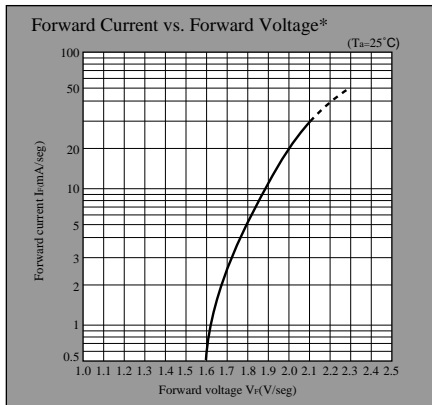
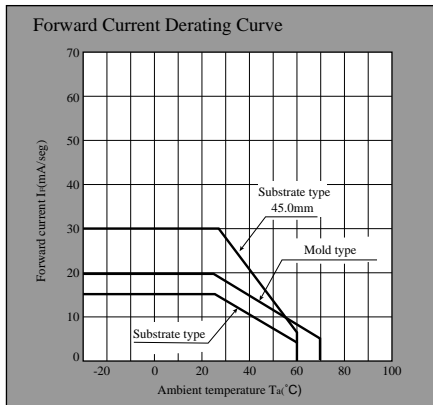
Numeric LED Characteristics Diagrams

T series



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

D series

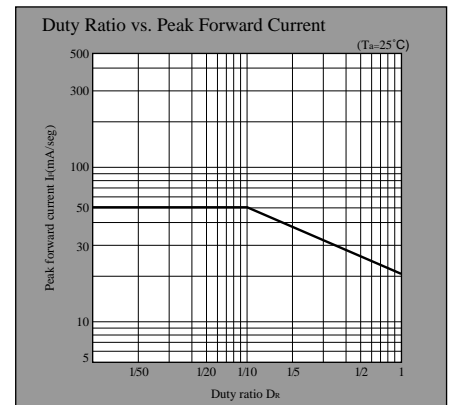
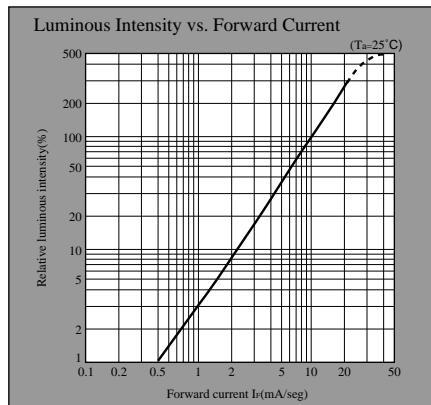
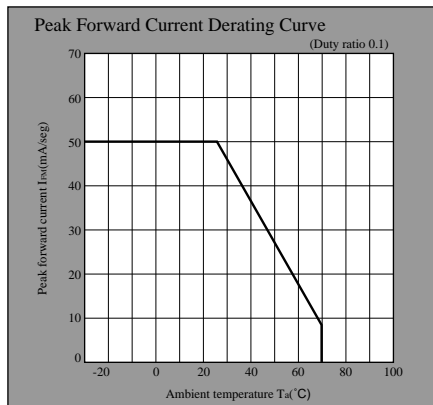
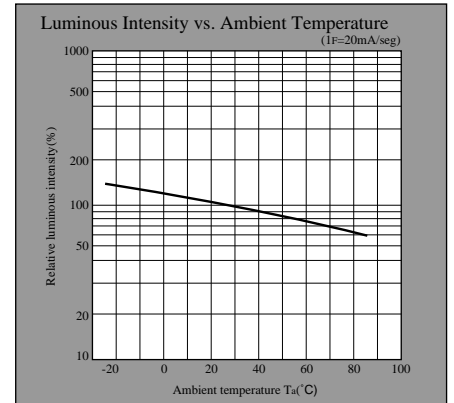
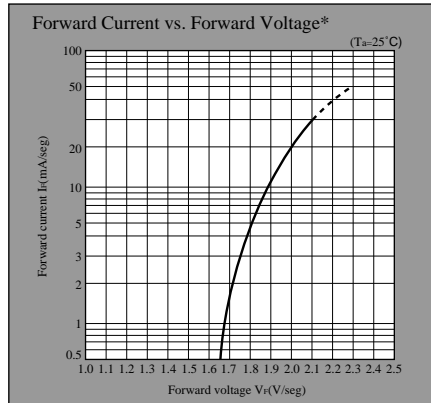
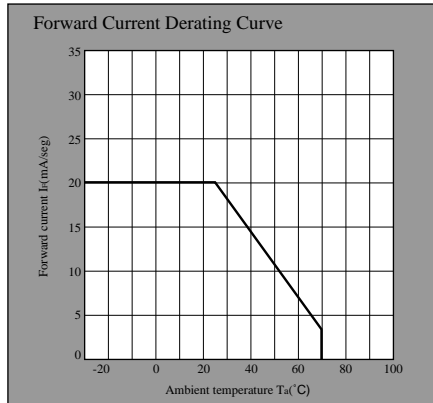


* In case of 25.4/45.0mm: value per 1segment 1chip

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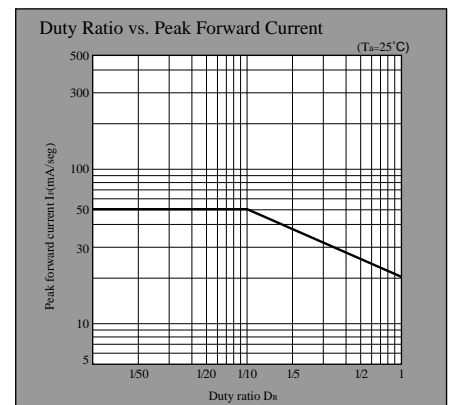
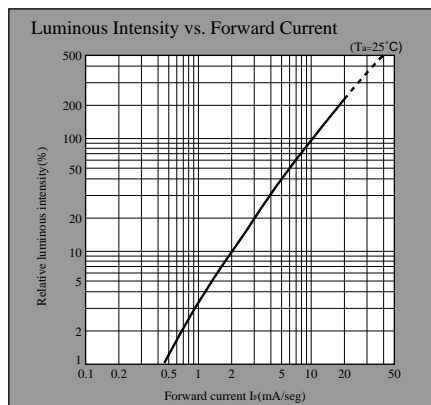
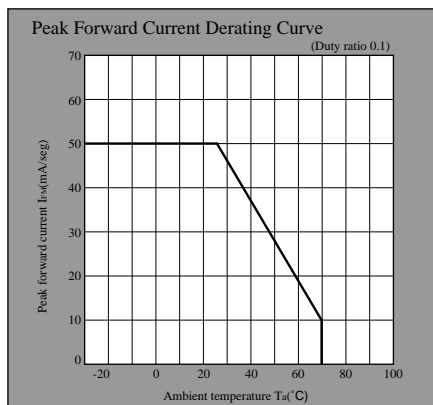
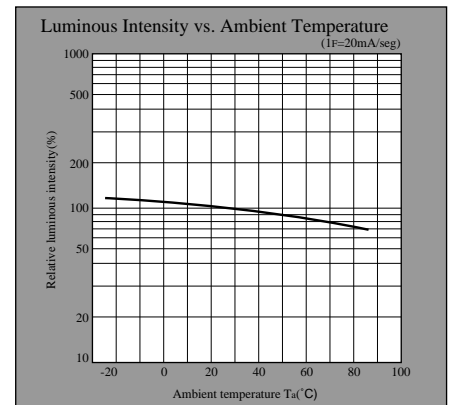
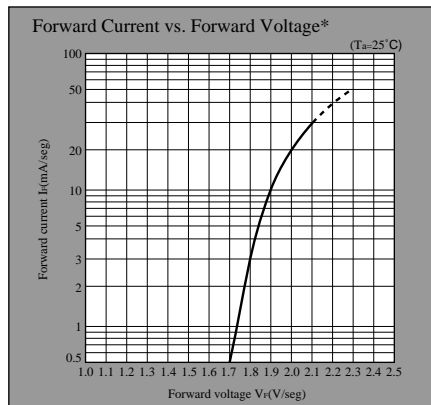
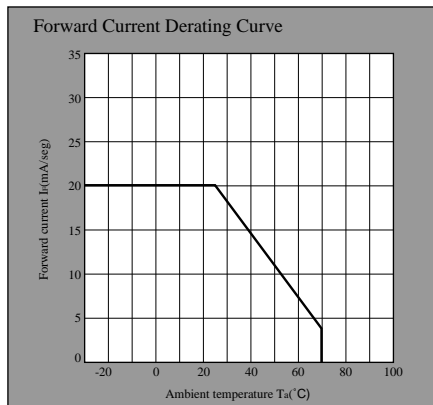
Numeric LED Characteristics Diagrams

S series



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

H series

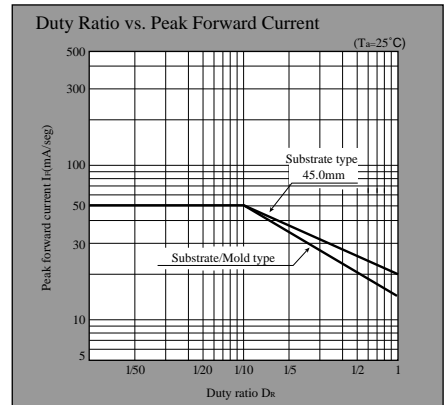
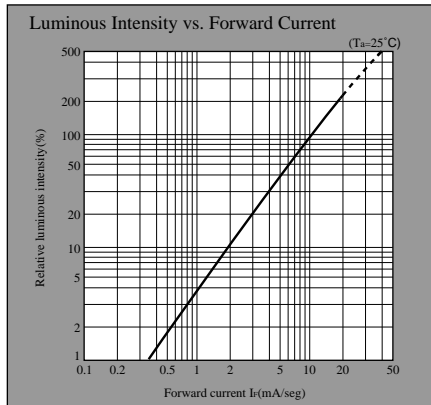
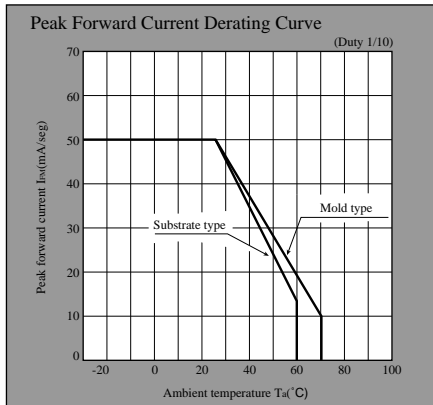
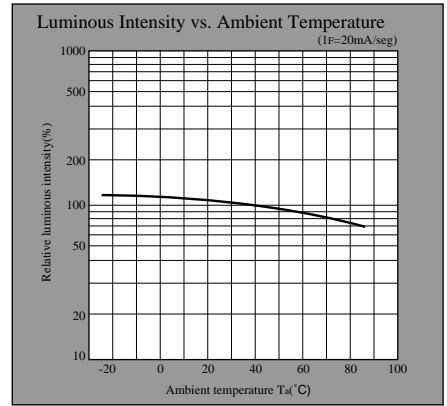
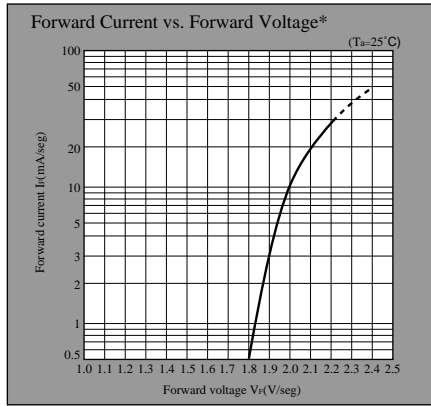
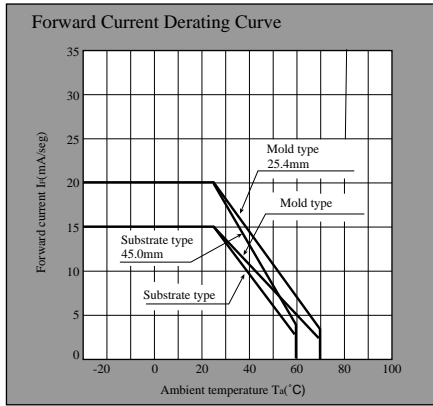


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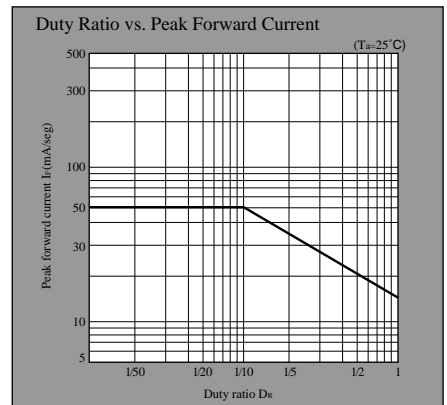
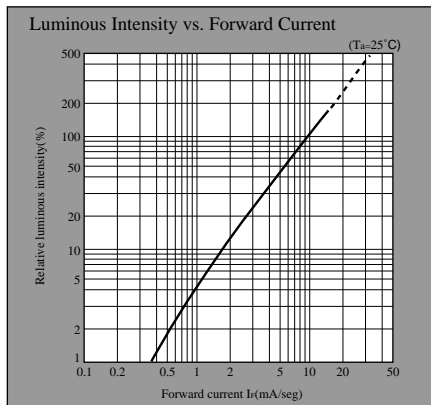
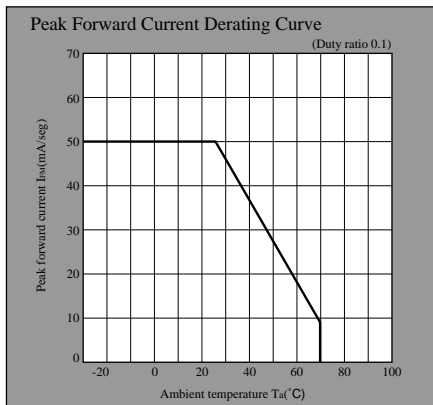
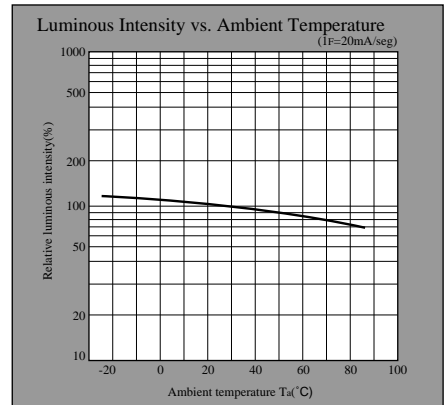
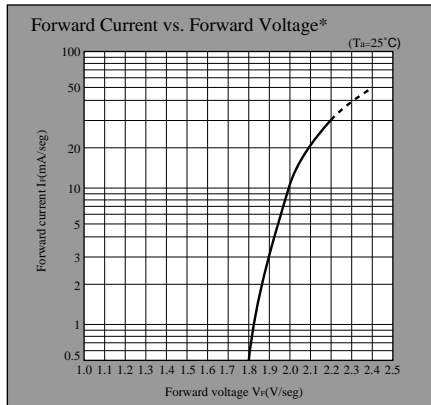
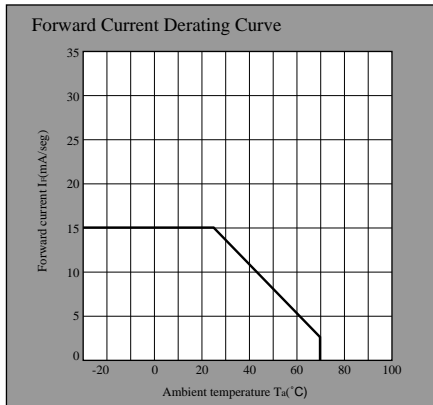
Numeric LED Characteristics Diagrams

E series



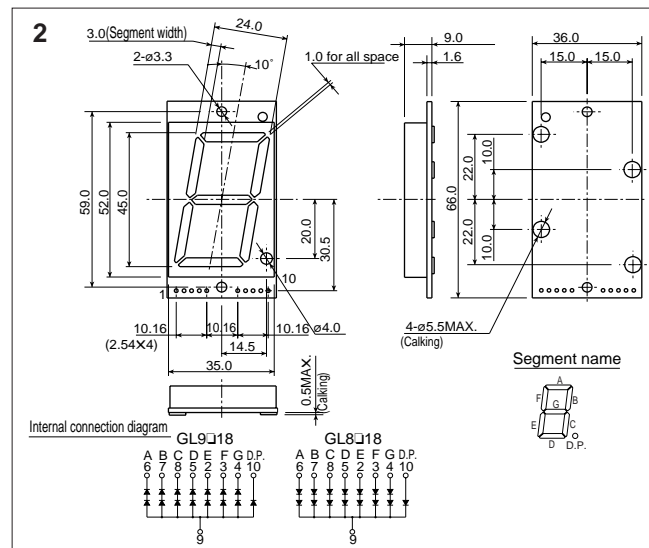
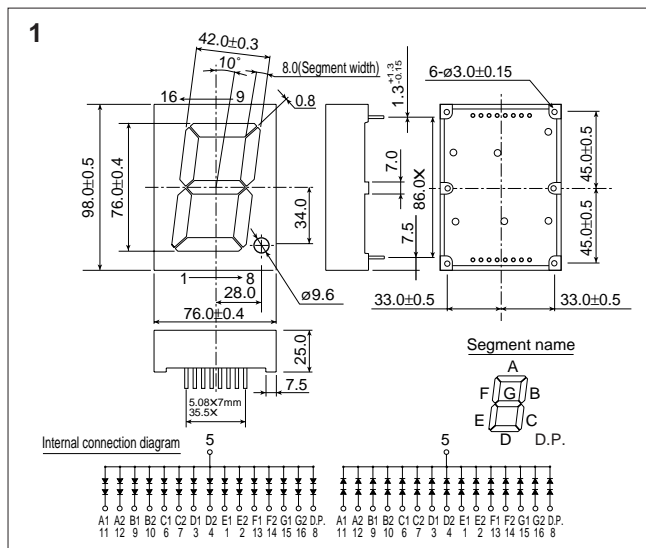
* In case of 25.4/45.0mm: value per 1segment 1chip

K series

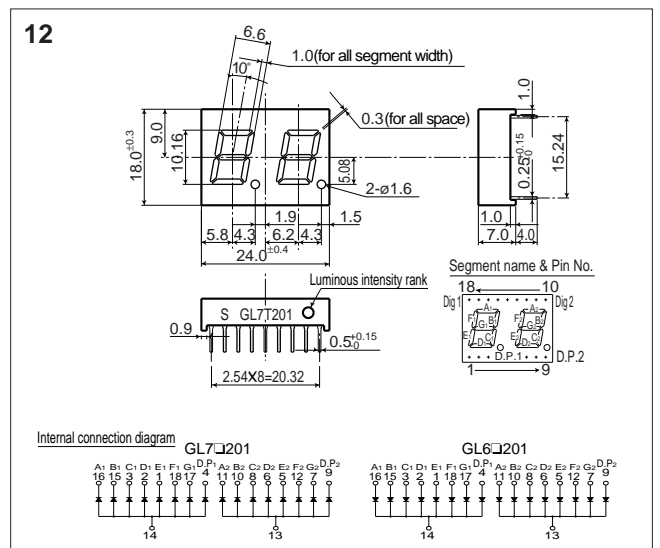
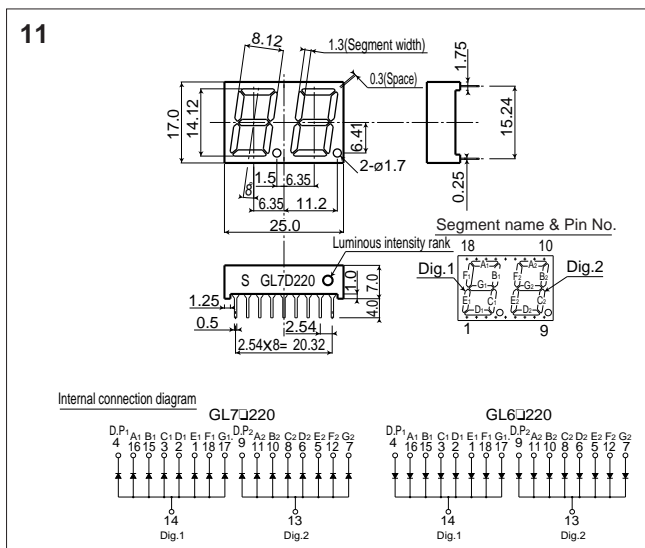
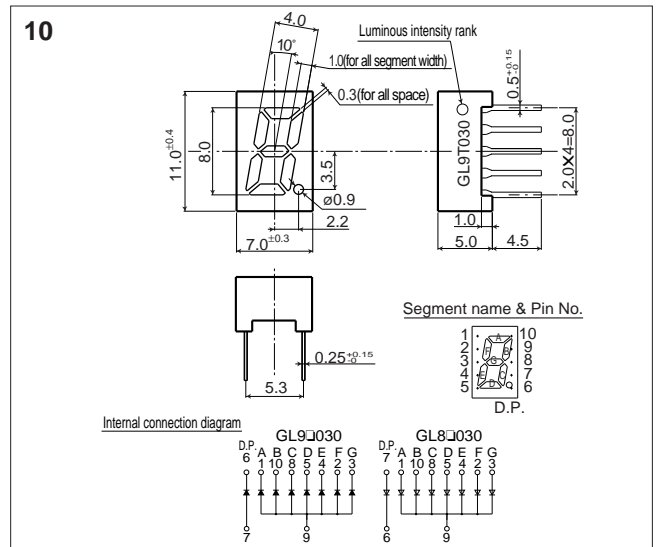
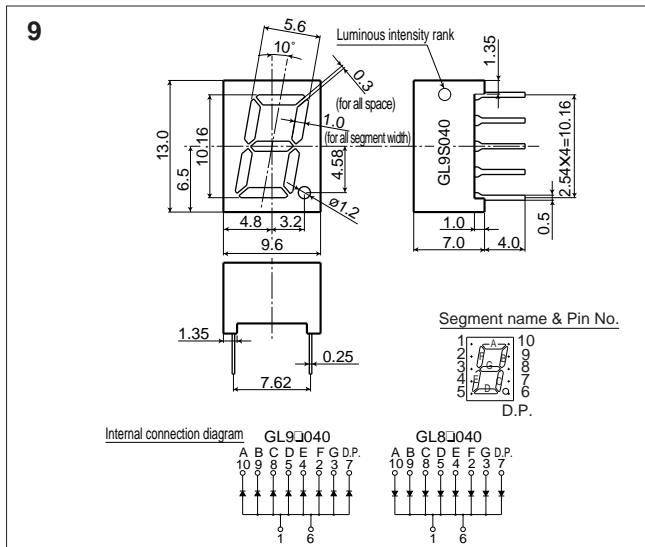
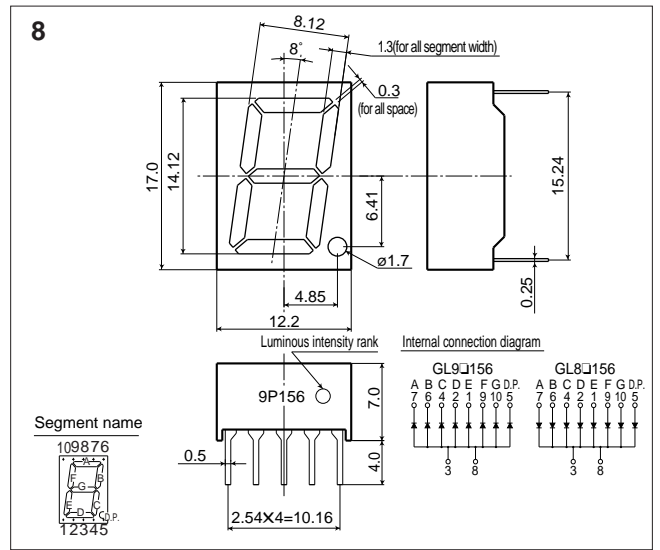
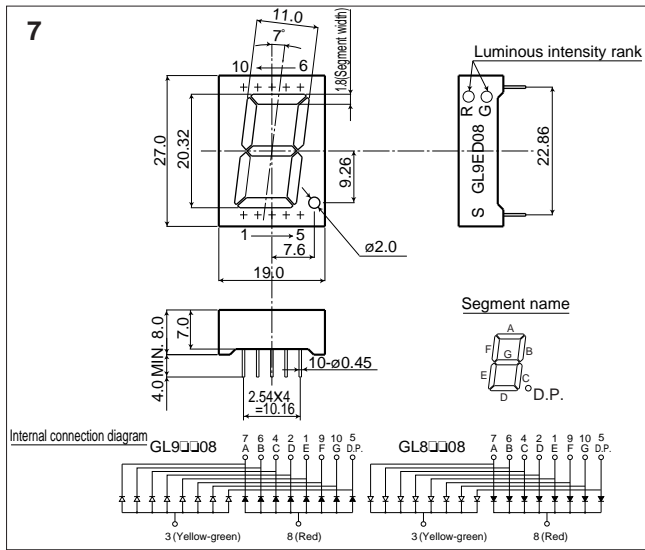


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Numeric LED Outline Dimensions(Unit:mm)



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