

GL9□ 156 / GL8□ 156 Series

14.12mm Character Height
Numeric LEDs

Model No.

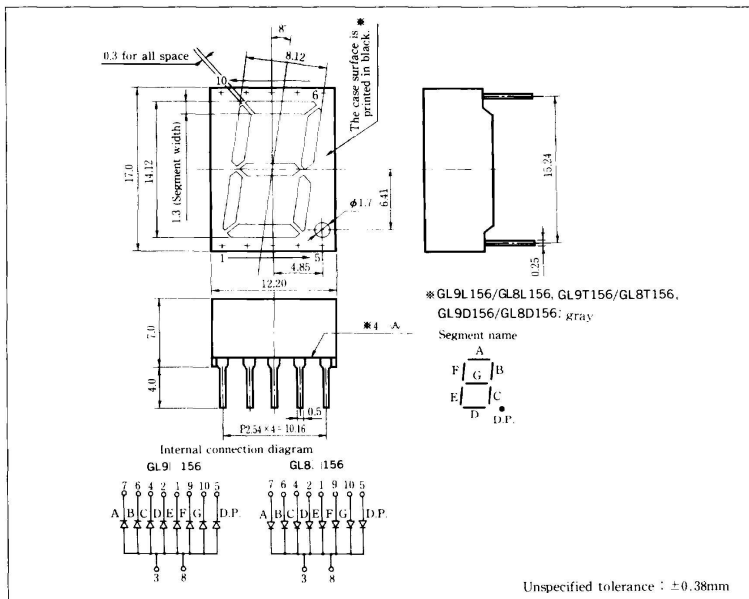
GL9L156/GL8L156	Red (High-luminosity)	GaAlAs/GaAs
GL9T156/GL8T156	Red (High-luminosity)	GaAlAs/GaAs
GL9P156/GL8P156	Red	GaP
GL9D156/GL8D156	Red	GaAsP/GaP
GL9S156/GL8S156	Sunset orange	GaAsP/GaP
GL9H156/GL8H156	Yellow	GaAsP/GaP
GL9E156/GL8E156	Yellow-green	GaP
GL9K156/GL8K156	Green	GaP

Features

1. Character height : 14.12mm
2. 1 digit
3. Case mold type
4. Small package
5. Diamond cut type segments

Outline Dimensions

(Unit: mm)



Numeric LEDs

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Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	GL9L156	GL9P156	GL9D156	GL9S156	GL9E156	Unit		
		GL8L156	GL8P156	GL8D156	GL8S156	GL8E156			
Power dissipation	※1 Per digit	P	308	263	322	350	263	mW	
Continuous forward current	※1 Per digit	I _F	140	105	140	140	105	mA	
	※2	I _F	20	15	20	20	15	mA	
※3 Peak forward current	※2	I _{FM}	100	50	50	50	50	mA	
Derating factor	※2	DC	—	0.36	0.27	0.36	0.36	0.27	mA/°C
		Pulse	—	1.82	0.91	0.91	0.91	0.91	mA/°C
Reverse voltage	Per segment	V _R	5	5	5	5	5	V	
	Per decimal point	V _R	5	5	5	5	5	V	
Operating temperature	T _{opr}	-30 to +70						°C	
Storage temperature	T _{stg}	-40 to +80						°C	
※4 Soldering temperature	T _{sol}	260 (within 5 seconds)						°C	

※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 (A) level of outline dimensions

GL9S156/GL8S156(Sunset orange) , GL9H156/GL8H156(Yellow)

Electro-optical Characteristics

(Ta = 25°C)

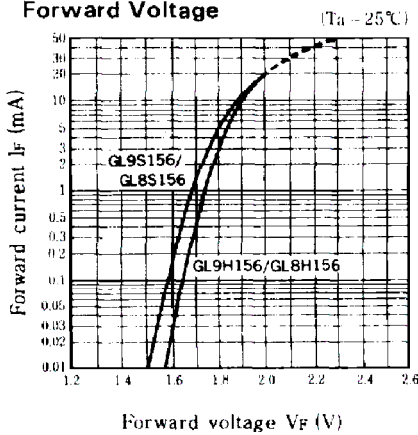
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	GL9S156/GL8S156	If = 10mA	—	1.9	2.5	V
		GL9H156/GL8H156	If = 10mA	—	1.9	2.5	
	Per decimal point	GL9S156/GL8S156	If = 10mA	—	1.9	2.5	V
		GL9H156/GL8H156	If = 10mA	—	1.9	2.5	
*5 Luminous intensity	Per segment	GL9S156/GL8S156	If = 10mA	1.32	3.8	—	mcd
		GL9H156/GL8H156	If = 10mA	1.32	4.5	—	
	Per decimal point	GL9S156/GL8S156	If = 10mA	0.45	1.2	—	mcd
		GL9H156/GL8H156	If = 10mA	0.60	1.8	—	
*2 Peak emission wavelength	λ_p	GL9S156/GL8S156	If = 10mA	—	610	—	nm
		GL9H156/GL8H156	If = 10mA	—	585	—	
*2 Spectrum radiation bandwidth	$\Delta \lambda$	GL9S156/GL8S156	If = 10mA	—	35	—	nm
		GL9H156/GL8H156	If = 10mA	—	30	—	
Reverse current	Per segment	GL9S156/GL8S156	V _R = 4V	—	—	10	μ A
		GL9H156/GL8H156	V _R = 4V	—	—	10	
	Per decimal point	GL9S156/GL8S156	V _R = 4V	—	—	10	μ A
		GL9H156/GL8H156	V _R = 4V	—	—	10	
*2 Response frequency	f _c	GL9S156/GL8S156	—	—	4	—	MHz
		GL9H156/GL8H156	—	—	4	—	

*2 Per segment, or per decimal point

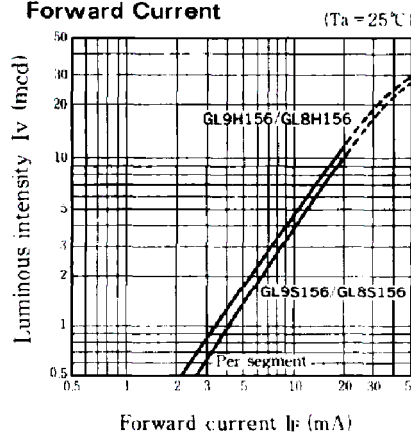
*5 Tolerance: ±30%

Characteristics Diagrams

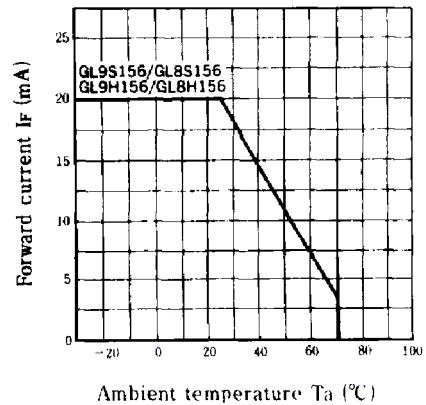
Forward Current vs. Forward Voltage



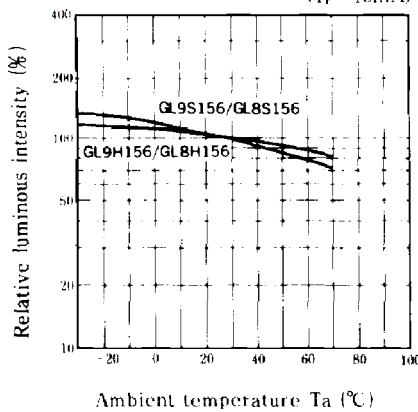
Luminous Intensity vs. Forward Current



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution

