

# GL9□100 / GL8□100 Series

25.4mm Character Height  
Numeric LEDs

■ **Model No.**

GL9L100/GL8L100

Red (High-luminosity)

GaAlAs/GaAs

■ **Features**

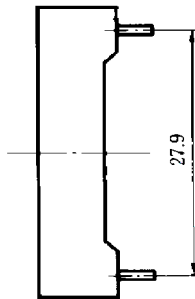
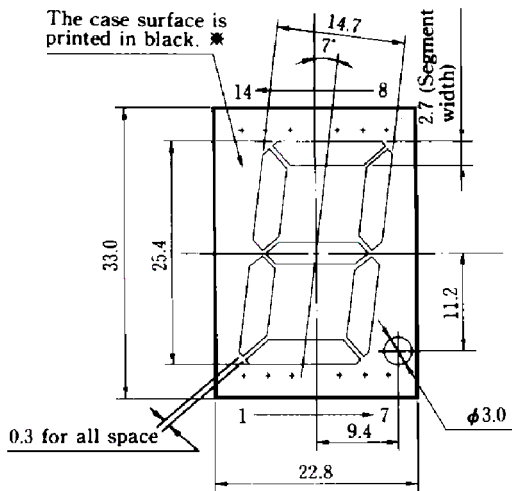
1. Character height : 25.4mm
2. 1 digit
3. Case mold type
4. Diamond cut type segments

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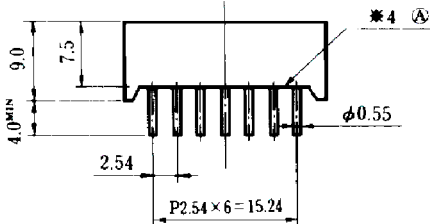
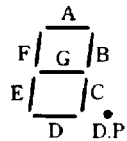
■ **Outline Dimensions**

(Unit: mm)

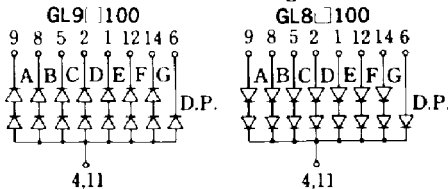


\*GL9L100/GL8L100, GL9T100/GL8T100,  
GL9D100/GL8D100 : gray

Segment name



Internal connection diagram



Unspecified tolerance : ±0.38mm

GL9□100 / GL8□100

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter		Symbol	GL9L100	GL9D100				Unit
			GL8L100	GL8D100				
			GL9T100	GL9E100				
			GL8T100	GL8E100				
Power dissipation	*1 Per digit	P	616	700				mW
Continuous forward current	*1 Per digit	IF	140	140				mA
	*2	IF	20	20				mA
*3 Peak forward current	*2	IFM	100	50				mA
Derating factor	*1 Per digit	DC	—	2.54	2.54			mA/°C
		Pulse	—	12.73	6.36			mA/°C
Reverse voltage	Per segment	VR	6	6				V
	Per decimal point	VR	5	5				V
Operating temperature		Topr	-30 to +70					°C
Storage temperature		Tstg	-40 to +80					°C
*4 Soldering temperature		Tsol	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 3.1 mm from (A) level of outline dimensions

GL9L100/GL8L100(Red) , GL9T100/GL8T100(Red)

■ Electro-optical Characteristics

(Ta = 25°C)

Parameter		Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	Per segment	VF	GL9L100/GL8L100	IF = 10mA	—	3.4	4.4	V
			GL9T100/GL8T100	IF = 10mA	—	3.4	4.4	
	Per decimal point		GL9L100/GL8L100	IF = 10mA	—	1.7	2.2	V
			GL9T100/GL8T100	IF = 10mA	—	1.7	2.2	
*5 Luminous intensity	Per segment	IV	GL9L100/GL8L100	IF = 10mA	5.71	16.8	—	mcd
			GL9T100/GL8T100	IF = 10mA	2.0	4.8	—	
	Per decimal point		GL9L100/GL8L100	IF = 10mA	1.7	4.6	—	mcd
			GL9T100/GL8T100	IF = 10mA	0.4	1.0	—	
*2 Peak emission wavelength		λp	GL9L100/GL8L100	IF = 10mA	—	660	—	nm
			GL9T100/GL8T100	IF = 10mA	—	660	—	
*2 Spectrum radiation bandwidth		Δλ	GL9L100/GL8L100	IF = 10mA	—	20	—	nm
			GL9T100/GL8T100	IF = 10mA	—	20	—	
Reverse current	Per segment	IR	GL9L100/GL8L100	VR = 5V	—	—	10	μA
			GL9T100/GL8T100	VR = 5V	—	—	10	
	Per decimal point		GL9L100/GL8L100	VR = 4V	—	—	10	μA
			GL9T100/GL8T100	VR = 4V	—	—	10	
*2 Response frequency		fc	GL9L100/GL8L100	—	—	8	MHz	
			GL9T100/GL8T100	—	—	8		

\*2 Per segment, or per decimal point

\*5 Tolerance: ±30%