

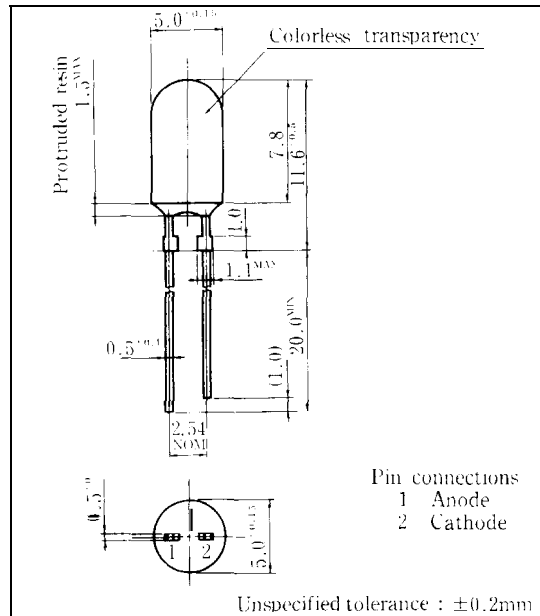
GL6DU11 T Series

∅5mm (T-1 $\frac{3}{4}$) Cylinder Type
LED Lamps

Model No.

GL6UR11T Red (Super-luminosity) GaAlAs/GaAlAs
GL6EG11T Yellow-green GaP

Outline Dimensions (Unit: mm)



Features

1. ∅5mm (T-1 $\frac{3}{4}$) all resin mold
2. Colorless transparency lens type
3. Wide viewing angle
4. High density mounting (flangeless package)

Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	GL6UR11T GL6EG11T		Unit
Power dissipation	P	75	84	mW
Continuous forward current	I _F	30	30	mA
*1 Peak forward current	I _{FM}	50	50	mA
Derating factor	—	0.40	0.40	mA/°C
	F	0.67	0.67	mA/°C
Reverse voltage	V _R	4	5	V
Operating temperature	T _{opr}	-25 to +85		°C
Storage temperature	T _{stg}	-25 to +100		°C
*2 Soldering temperature	T _{sol}	260 (within 5 seconds)		°C

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

*2 At the position of 1.6mm from the bottom face of resin package

SHARP

GL6UR11 T (Red)

■ Electro-optical Characteristics

(Ta = 25°C)

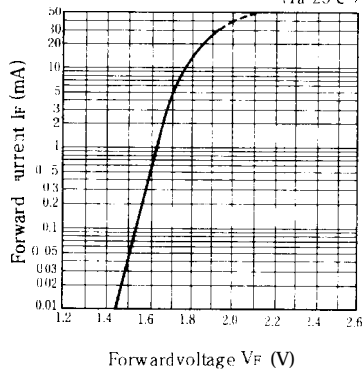
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	GL6(JR11 T	$I_F = 20\text{mA}$		1.85	2.5	V
※3 Luminous intensity	I_v	GL6UR11T	$I_F = 20\text{mA}$	100	300	-	mcd
Peak emission wavelength	λ_p	GL6UR11T	$I_F = 20\text{mA}$		660	-	nm
Spectrum radiation bandwidth	$\Delta \lambda$	GL6UR11T	$I_F = 20\text{mA}$		20	-	nm
Reverse current	I_R	GL6UR11T	$V_R = 3\text{V}$		-	100	μA
Terminal capacitance	C_t	GL6UR11T	$V = 0\text{V}$ $f = 1\text{MHz}$	-	25	-	pF
Response frequency	f_c	GL6UR11T	-	-	8	-	MHz

※3 Tolerance: ±30%

■ Characteristics Diagrams

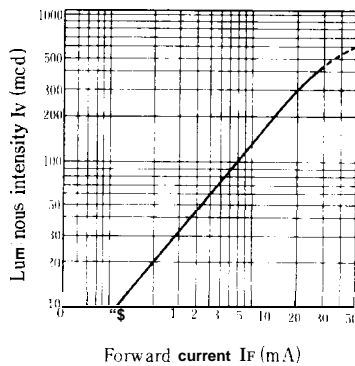
Forward Current vs. Forward Voltage

(Ta = 25°C)

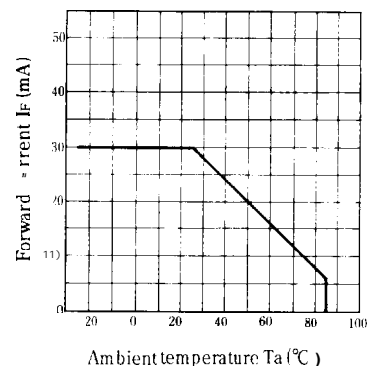


Luminous Intensity vs. Forward Current

(Ta = 25°C)

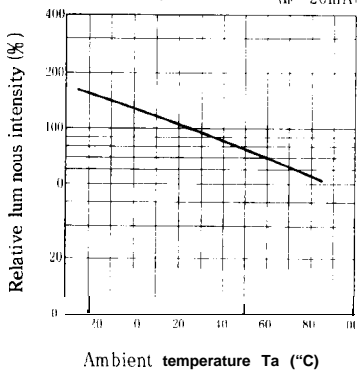


Forward Current Derating Curve



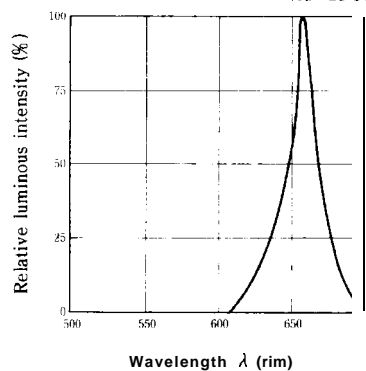
Relative Luminous Intensity vs. Ambient Temperature

(IF = 20mA)



Spectrum Distribution

(Ta = 25°C)



GL6EG11 T (Yellow-green)

■ Electro-optical Characteristics

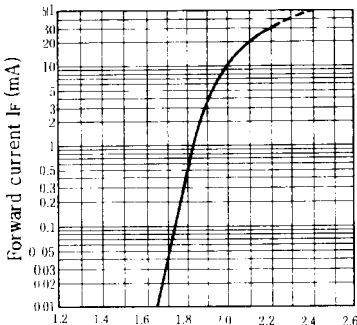
(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	GL6EG11T	$I_F=20\text{mA}$		2.1	2.8	V
※3 Luminous intensity	I_v	GL6EG11T	$I_F=20\text{mA}$	50	200	-	mcd
Peak emission wavelength	λ_p	GL6EG11T	$I_F=20\text{mA}$		565	-	nm
Spectrum radiation bandwidth	$\Delta\lambda$	GL6EG11T	$I_F=20\text{mA}$		30	-	nm
Reverse current	I_R	GL6EG11T	$V_R=4\text{V}$			10	μA
Terminal capacitance	C_t	GL6EG11T	$V=0\text{V}$ $f=1\text{MHz}$	-	35	-	pF
Response frequency	f_c	GL6EG11T	-		4	-	MHz

※3 Tolerance: ±30%

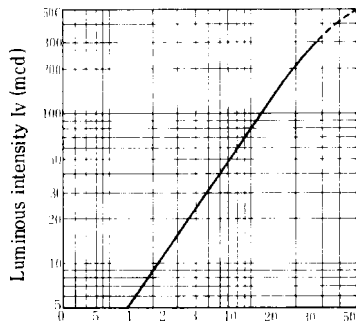
■ Characteristics Diagrams

Forward Current vs. Forward Voltage (Ta=25°C)



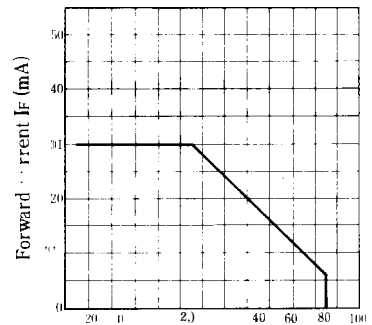
Forward voltage V_F (V)

Luminous Intensity vs. Forward Current (Ta=25°C)



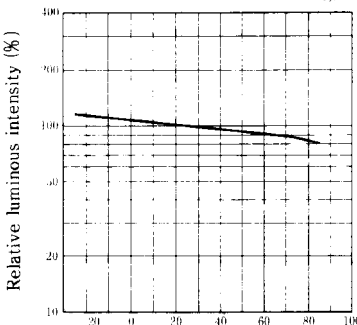
Forward current I_F (mA)

Forward Current Derating Curve



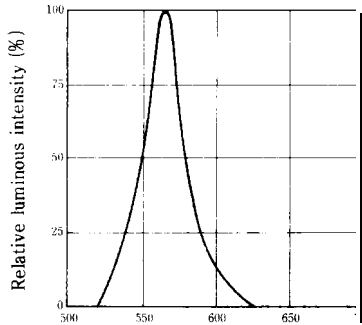
Ambient temperature T_a (°C)

Relative Luminous Intensity vs. Ambient Temperature ($I_F=20,41$)



Ambient temperature T_a (°C)

Spectrum Distribution (Ta=25°C)



Wave length λ (nm)