

# GL5□□73 Series

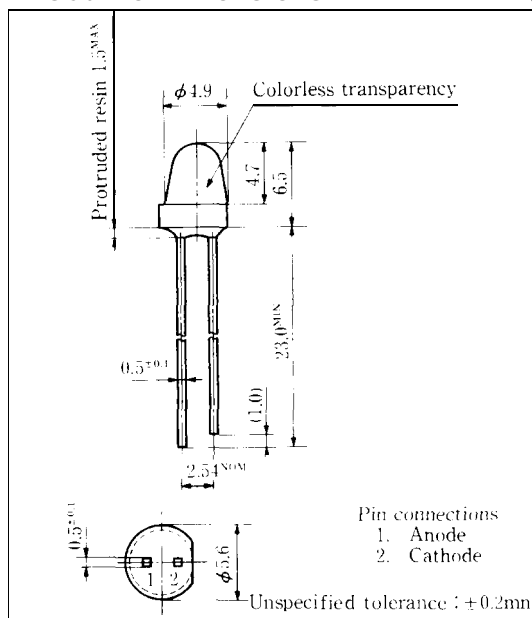
## φ5mm(T-1 $\frac{3}{4}$ ) Cylinder "p"

### Model No.

GL5LR73 Red (High-luminosity) GaAlAs/GaAs

GL5TR73 Red (High-luminosity) GaAlAs/GaAs

### Outline Dimensions (Unit: mm)



### Features

1. φ5mm(T-1 $\frac{3}{4}$ ) all resin mold
2. Colorless transparency lens type
3. **Low** dome type

### Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	GL5LR73					Unit
		GL5TR73					
Power dissipation	P	110					mW
Continuous forward current	I <sub>F</sub>	50					mA
*1 Peak forward current	I <sub>FM</sub>	300					mA
Derating factor	DC	—	0.67				mA/°C
	Pulse		4.00				mA/°C
Reverse voltage	V <sub>R</sub>	5					V
Operating temperature	T <sub>opr</sub>	-25 to +85					°C
Storage temperature	T <sub>stg</sub>	-25 to +100					°C
*2 Soldering temperature	T <sub>sol</sub>	260(within 5 seconds)					°C

\*1 Duty ratio = 1/16 , Pulse width ≤ 1ms

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

**SHARP**

## GL5LR73 (Red) / GL5TR73 (Red)

## ■ Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	$V_F$	GL5LR73	$I_F = 20\text{mA}$	·	1.75	2.2	V
		GL5TR73	$I_F = 20\text{mA}$	—	1.75	2.2	
*3 Luminous intensity	$I_V$	GL5LR73	$I_F = 20\text{mA}$	80	220	—	' c d
		GL5TR73	$I_F = 20\text{mA}$	50	110	—	
Peak emission wavelength	$\lambda_p$	GL5LR73	$I_F = 20\text{mA}$	—	660	—	' m
		GL5TR73	$I_F = 20\text{mA}$	—	660	—	
Spectrum radiation bandwidth	$\Delta\lambda$	GL5LR73	$I_F = 20\text{mA}$	—	20	—	nm
		GL5TR73	$I_F = 20\text{mA}$	—	20	—	
Reverse current	$I_R$	GL5LR73	$V_R = 4\text{V}$	—	—	10	$\mu\text{A}$
		GL5TR73	$V_R = 4\text{V}$	—	—	10	
Terminal capacitance	$C_t$	GL5LR73	$v = 0\text{V}$ $f = 1\text{MHz}$	—	30	—	pF
		GL5TR73	$V = 0\text{V}$ $f = 1\text{MHz}$	—	30	—	
Response frequency	$f_c$	GL5LR73	—	—	8	—	' Hz
		GL5TR73	—	—	8	—	

\*3 Tolerance:  $\pm 30\%$ 

## ■ Characteristics Diagrams

