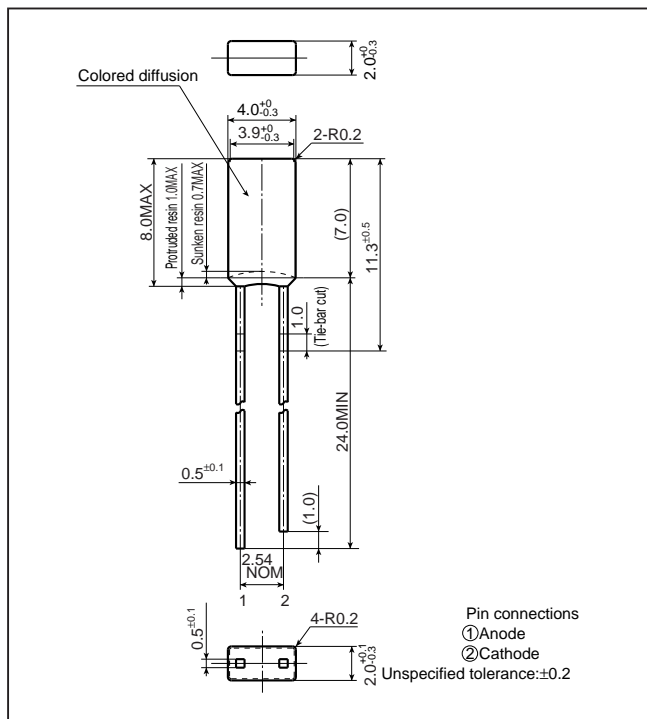


# GL8TR42

## 2.0 × 3.9mm, Rectangle Type, Colored Diffusion, High-luminosity LED Lamp for Indicator

### Outline Dimensions

(Unit : mm)



### Absolute Maximum Ratings

(T<sub>a</sub>=25°C)

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current I <sub>FM</sub> *1 (mA)	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)	Soldering temperature T <sub>sol</sub> *2 (°C)
						DC	Pulse				
GL8TR42	Red(High-luminosity)	GaAlAs on GaAs	110	50	300	0.67	4.00	5	-25 to +85	-25 to +100	260

\*1 Duty ratio=1/16, Pulse width≤1ms

\*2 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

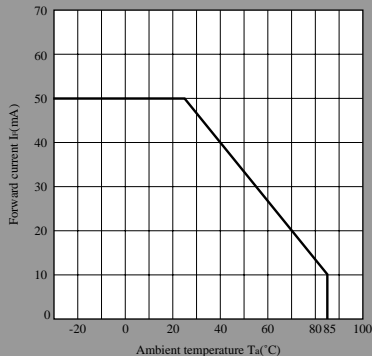
### Electro-optical Characteristics

(T<sub>a</sub>=25°C)

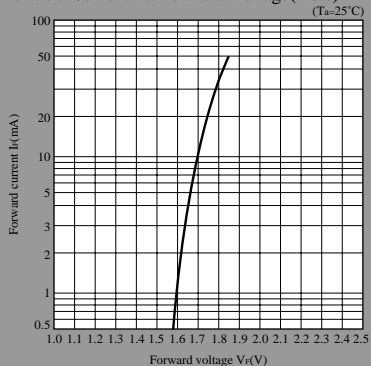
Lens type	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	λ <sub>p</sub> (nm) TYP	I <sub>F</sub> (mA)	I <sub>v</sub> (mcd) TYP	I <sub>F</sub> (mA)	Δλ(nm) TYP	I <sub>F</sub> (mA)	I <sub>R</sub> (μA) MAX	V <sub>R</sub> (V)	C <sub>t</sub> (pF) TYP	(MHz)	
Colored diffusion	GL8TR42	1.75	2.2	660	20	4.0	20	20	20	10	4	30	1	→

# TR series

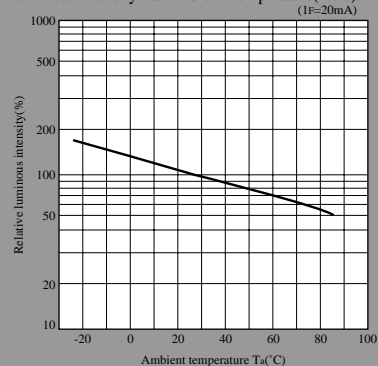
## Forward Current Derating Curve



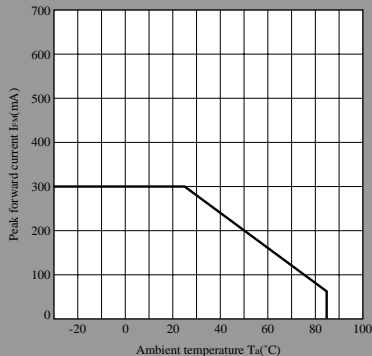
## Forward Current vs. Forward Voltage(Note)



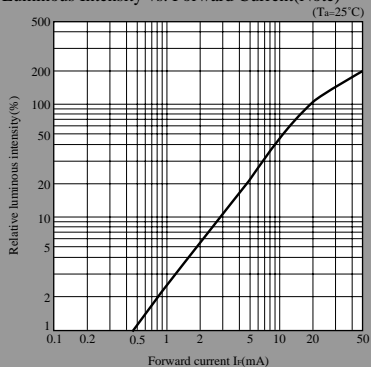
## Luminous Intensity vs. Ambient Temperature(Note)



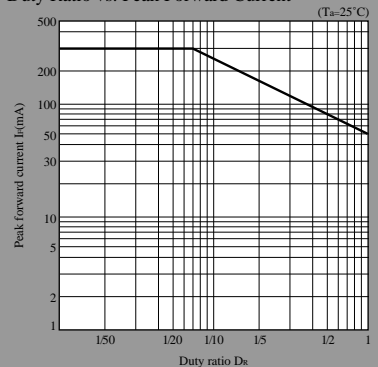
## Peak Forward Current Derating Curve



## Luminous Intensity vs. Forward Current(Note)



## Duty Ratio vs. Peak Forward Current



Note) Characteristics shown in diagrams are typical values. (not assurance value)