

# GL043□□ Series

0.32mm<sup>□</sup> LED Chips

## ■ Model No.

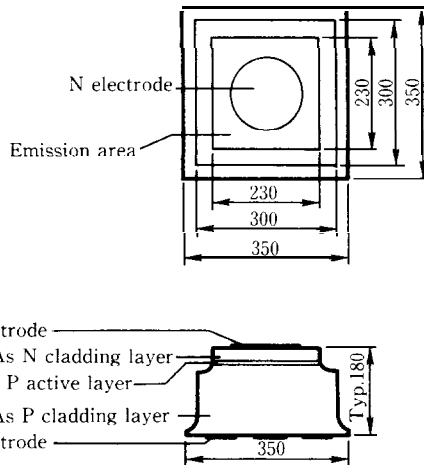
GL043UR Red (Super-luminosity) GaAIAs/GaAIAs Double-hetero

## ■ Features

1. Super or High-luminosity
2. Chip size : 0.35mm
3. Emission area : 0.23mm<sup>□</sup>
4. Electrode N(Cathode) Side : Aluminum alloy  
P(Anode) Side : Gold alloy

## ■ Outline Dimensions

(Unit : μm)



SHARP

**GL043UR(RED)**

(Ta = 25°C)

**Electro-optical Characteristics**

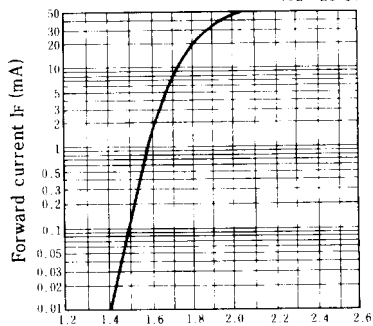
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	$V_F$	GL043UR	$I_F = 20\text{mA}$		1.9	2.5	V
*Luminous intensity	$I_V$	GL043UR	$I_F = 20\text{mA}$	19	30	—	mcd
Peak emission wavelength	$\lambda_P$	GL043UR	$I_F = 20\text{mA}$		660	—	nm
Spectrum width of half value	$\Delta\lambda$	GL043UR	$I_F = 20\text{mA}$		20	—	nm
Reverse current	$I_R$	GL043UR	$V_R = 3\text{V}$			10	$\mu\text{A}$
Capacitance	$C_0$	GL043UR	$V_a = 0\text{V}$ $f = 1\text{MHz}$	—	25	—	pF
Response frequency	$f_c$	GL043UR	—				MHz

\* 1 Tolerance :  $\pm 30\%$

**Characteristics Diagrams**

Forward Current vs. Forward Voltage

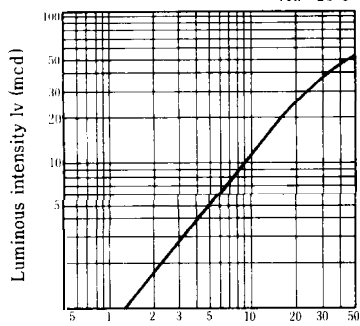
(Ta = 25°C)



Forward voltage  $V_F$  (V)

Luminous Intensity vs. Forward Current

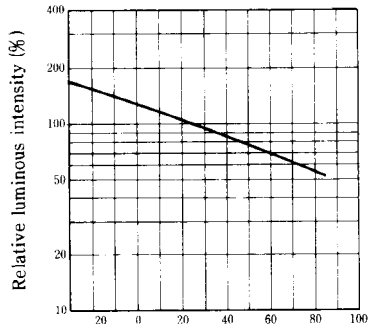
(Ta = 25°C)



Forward current  $I_F$  (mA)

Relative Luminous Intensity vs. Ambient Temperature

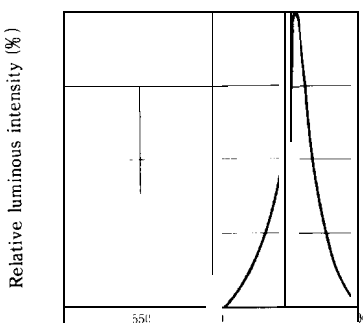
( $I_F = 20\text{mA}$ )



Ambient temperature  $T_a$  (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength  $\lambda$  (nm)

