

GL4600/GL4610

Double-End Type Infrared Emitting Diode

■ Features

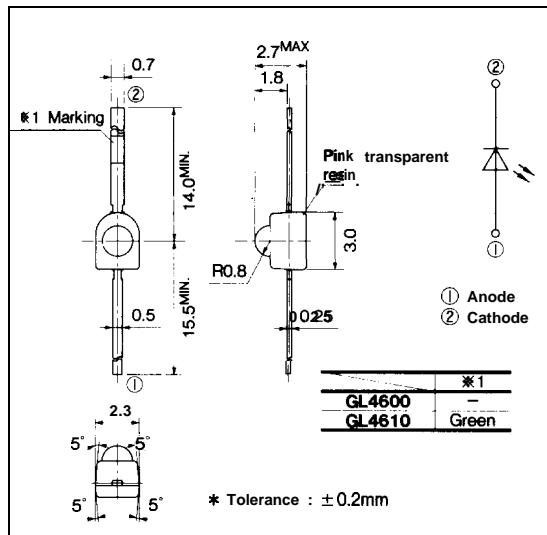
1. Small double-end type package
(Mounting area : 37% smaller than **GL480**)
2. Narrow beam angle
($\Delta\theta$: TYP. $\pm 13''$,
Radiation intensity : 3 times higher
than **GL460**)
3. High output type (**GL4610**)
4. Tape-packaged models are also available
(2 000pcs./reel)

■ Applications

1. Floppy disk drives
2. VCRs
3. Audio equipment
4. Camcorders

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Forward current	I _F	1 5 0	mA
* ¹ Peak forward current	I _{FM}	1	A
Reverse voltage	V _R	6	V
Power dissipation	P	150	mW
Operating temperature	T _{opr}	-20 to +85	°C
Storage temperature	T _{stg}	-40 to +85	°C
*Soldering temperature	T _{sot}	260	°C

*1 Pulse width : 100 μs, duty ratio : 0.01

*2 For 3 seconds at the position of 2.5mrn from the bottom face of resin package

■ Electro-optical Characteristics

(Ta = 25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	I _F = 20mA	·	1.2	1.5	v
Peak forward voltage	V _{FM}	I _{FM} = 0.5A	—	2.2	4.0	v
Reverse current	I _R	V _R = 3V	—	—	10	μA
Terminal capacitance	C _t	V _R = 0, F= 1MHz	—	15	—	pF
Response frequency	f _c			300	—	kHz
Radiant flux	GL4600 GL4610	Φ _e	I _F = 20mA	1.0	—	4.0
Peak emission wavelength				1.8	—	7.2
Spectrum radiation bandwidth	△λ	I _F = 5mA		45	—	nm
Half intensity angle	△θ	I _F = 20mA	—	±13	—	°

Fig. 1 Forward Current vs. Ambient Temperature

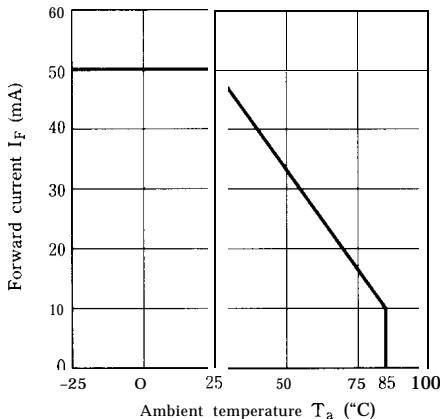
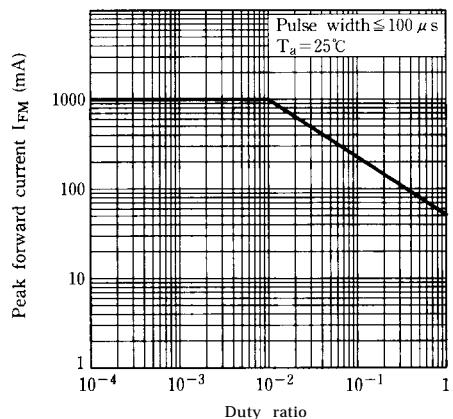


Fig. 2 Peak Forward Current vs. Duty Ratio



- Please refer to the chapter "Precautions for Use" (Page 78 to 93)