GL610T

Chip Type Infrared Emitting Diode

■ Features

1. Subminiature (Dimensions : 1.6 × 1.6 × 0.8mm)
2. Thin type (Thickness : 0.8mm)
3. Taped model (4 000pcs./reel)
4. Leadless type

■ Applications

1. Small and thin type remote control units
2. Tape end detectors for VCR, VCR camera
3. Light source of tatch panel for car navigation system
4. Portable equipment

■ Absolute Maximum Ratings

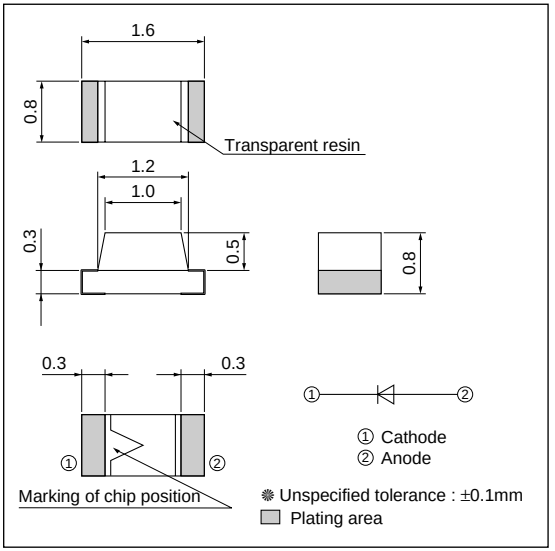
(Ta=25˚C)

Parameter	Symbol	Rating	Unit
Forward current	I_F	50	mA
*1 Peak forward current	I_{FM}	500	mA
Reverse voltage	V_R	6	V
Power dissipation	P	150	mW
Operating temperature	T_{opr}	–25 to +85	˚C
Storage temperature	T_{stg}	–25 to +100	˚C
*2 Soldering temperature	T_{sol}	260	˚C

*1 Pulse width=100μs, Duty ratio=0.01
*2 Hand soldering temperature, for MAX. 3s

■ Outline Dimensions

(Unit : mm)



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Internet Internet address for Electronic Components Group http://www.sharp.co.jp/ecg/

■ Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	I_F=50mA	–	1.3	1.5	V
*1 Peak forward voltage	V_{FM}	I_{FM}=0.5A	–	2.2	3.5	V
Reverse current	I_R	V_R=3V	–	–	10	μA
Radiant flux	ϕe	V_F=20mA	0.7	2.0	–	mW
Peak emission wavelength	λp	I_F=20mA	–	950	–	nm
Spectrum radiation bandwidth	$\Delta\lambda$	I_F=20mA	–	40	–	nm
Response frequency	fc	–	–	300	–	kHz
Half intensity angle	$\Delta\theta$	I_F=20mA	–	±60	–	°

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— Office automation equipment
— Telecommunication equipment [terminal]
— Test and measurement equipment
— Industrial control
— Audio visual equipment
— Consumer electronics

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— Traffic signals
— Gas leakage sensor breakers
— Alarm equipment
— Various safety devices, etc.

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