

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)

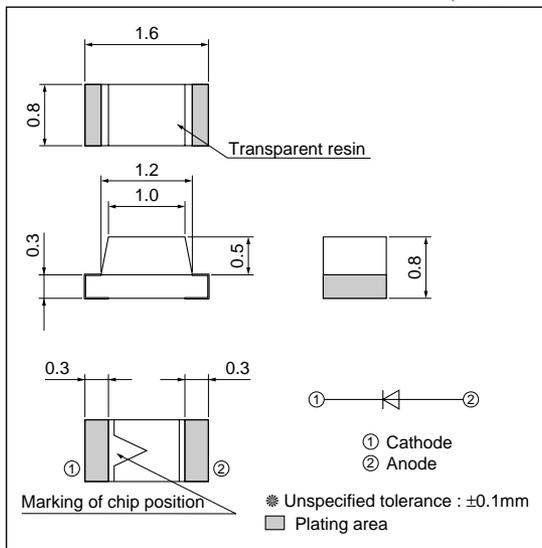
Parameter	Symbol	Rating	Unit
Forward current	I _F	50	mA
*1 Peak forward current	I _{FM}	500	mA
Reverse voltage	V _R	6	V
Power dissipation	P	150	mW
Operating temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-25 to +100	°C
*2 Soldering temperature	T _{sol}	260	°C

*1 Pulse width=100μs, Duty ratio=0.01

*2 Hand soldering temperature, for MAX. 3s

■ Outline Dimensions

(Unit : mm)



■ Electro-optical Characteristics

(Ta=25°C)

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

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