

GL610T

Chip Type Infrared Emitting Diode

■ Features

1. Subminiature (Dimensions : $1.6 \times 1.6 \times 0.8\text{mm}$)
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 tach panel for car navigation system
4. Portable equipment

■ **Absolute Maximum Ratings** (Ta=25°C)

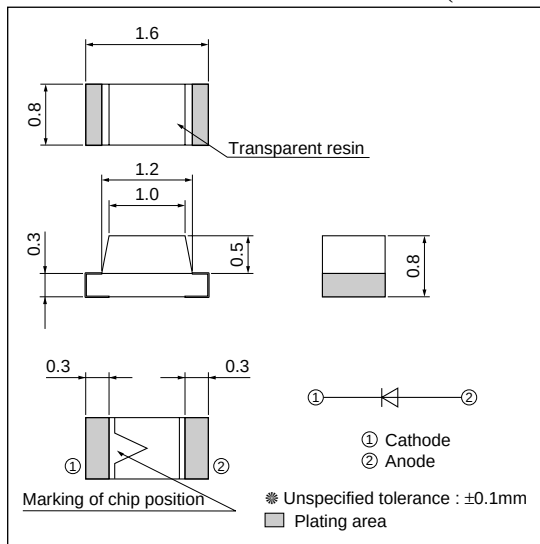
Parameter	Symbol	Rating	Unit
Forward current	I _F	50	mA
*1 Peak forward current	I _{FM}	500	mA
Reverse voltage	V _R	6	V
Power dissipation	P	150	mW
Operating temperature	T _{opr}	−25 to +85	°C
Storage temperature	T _{stg}	−25 to +100	°C
*2 Soldering temperature	T _{sol}	260	°C

*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	$V_f=20\text{mA}$	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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