

LT1E77A

Chip LED Device

High-luminosity, Super Compact Chip LED Device

General Description

Sharp's **LT1E77A**(high-luminosity, yellow-green) is thin type super compact size chip LED device.(1.6 x 0.8 x 0.5mm) It is suitable for backlight of portable equipment such as cellular phone and pager etc.

Features

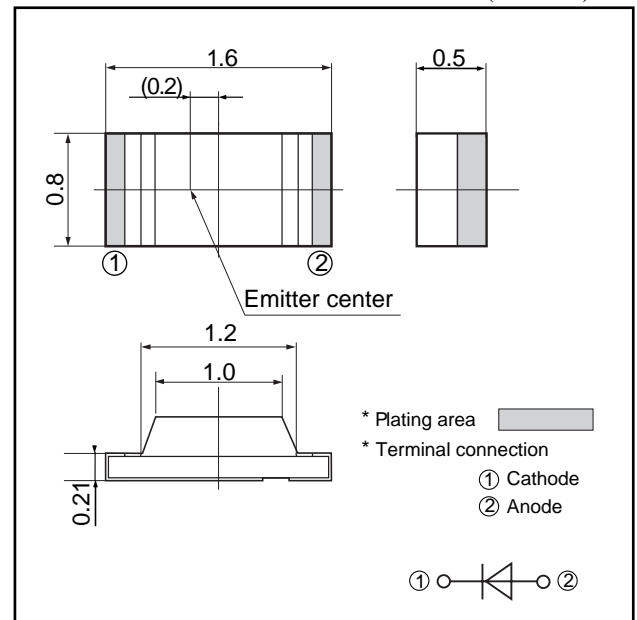
- (1) Thin type(Thickness: 0.5mm)
- (2) Super compact size(1.6 x 0.8 x 0.5mm)
- (3) Realizes high-luminosity due to originally developed PWB with reflector
- (4) Tape packaged product(5 000pcs./reel)

Applications

- (1) Cellular phones
- (2) Pagers
- (3) Other portable equipment
- (4) Various compact equipment that requires high-density mounting

Outline Dimensions

(Unit:mm)



Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power dissipation	P	84	mW
Forward current	I _F	30	mA
*1 Peak forward current	I _{FM}	50	mA
Derating factor	DC	0.40	mA/°C
	Pulse	0.67	
Reverse voltage	V _R	5.0	V
Operating temperature	T _{opr}	- 30 to +85	°C
Storage temperature	T _{stg}	- 30 to +100	°C

*1 Duty ratio=1/10
 Pulse width=0.1ms

Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Condition	Rating	Unit
Forward voltage	V _F	I _F =20mA	2.1	V
*2 Luminous intensity	I _V		(23)	mcd
Peak emission wavelength	λ _P		565	nm
Spectrum radiation bandwidth	Δλ		30	nm
Reverse current	I _R	V _R =4V	MAX.10	μA
Terminal capacitance	C _t	V=0V, f=1MHz	35	pF

*2 Measured by Sharp by EG & G MODEL550 (RADIOMETER/PHOTOMETER SYSTEM)

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• Specifications are subject to change without notice for improvement.

(Internet) • Data for Sharp's optoelectronic/power devices is provided for internet. (Address <http://www.sharp.co.jp/ecg/>)