

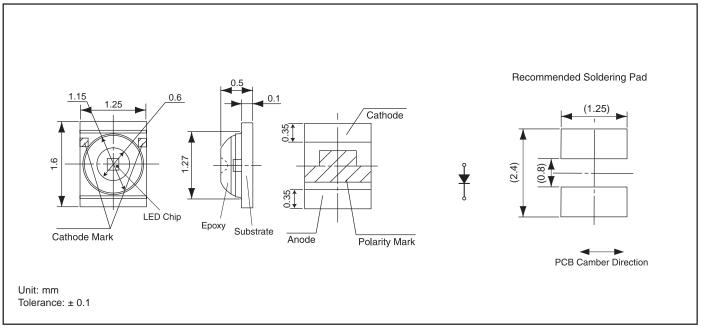
Features

 New lens design enables uniform brightness with 180° spatial distribution

Applications

- Cellular phone key pad backlighting
- Backlighting for switches

Outline Dimensions



Electro-Optical Characteristics

(Ta=25°C)

Part No.	Material	Emitted Color	Lens Color	Int	minc ensit	y Iv	Peak λρ TYP.	Wave Dominant Ad TYP.	Spectral Line Half Width AX TYP.	IF	Vo	orwa Itage ^{MAX.}	VF	Reve Curre MAX.		Viewing Angle (2 0 1/2)
PY1105CK	GaP	Yellow-Green	Clear	4.7	8.0	10	570	572	30	10	2.1	2.8	10	100	4	180°C
		Unit		m	cd	mΑ		nm	ı	mΑ	١	V	mA	μA	V	Deg.

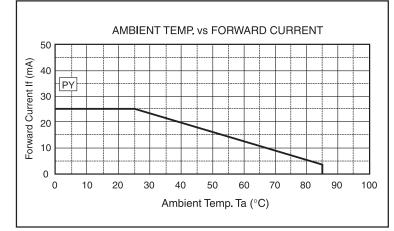


Absolute Maximum Ratings

Absolute Maxi	mum k	atings	(Ta=25°C)
Item		Yellow	Unit
nem	Symbol PY		Unit
Power Dissipation	Pd	75	mW
Forward Current	F	25	mA
Peak Forward Current	FM	60	mA
Reverse Voltage	VR	4	V
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Derating*	ΔI_{F}	0.36 (DC) 0.86 (Pulse)	mA/°C

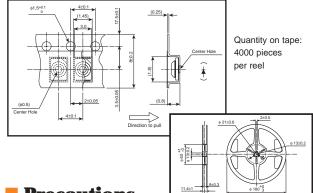
* Ta=25°C, I_{FM} applies for the pulse width \leq 1msec. and duty cycle \leq 1/20.

Operation Current Derating Chart (DC)



Spatial Distribution X. Y Directic

Taping Specifications



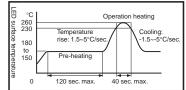
Precautions

Please follow these handling precautions to prevent damage to the chip and ensure its reliability.

1. Soldering conditions:

- Soldering iron: Temperature at tip of iron: 350°C max. (30W max.) Soldering time: 3 sec. max.
- <u>Dip soldering</u>: Preheating: 120°C max. (resin surface temp.) 60 sec. max. Bath temperature: 265°C max. Dipping Time: 5 sec. max.

<u>Reflow Soldering</u>:



2. Cleaning:

- If cleaning is required, use the following solutions for less than 1 minute, at less than 40°C.
- Appropriate chemicals: Ethyl alcohol and isopropyl alcohol.
- Effect of ultrasonic cleaning on the LED resin body differs depending on such factors as the oscillator output, size of PCB and LED mounting method. The use of ultrasonic cleaning should be enforced at proper output after confirming there is no problem.

Product specifications subject to change without notice. PY1105CK-0702

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