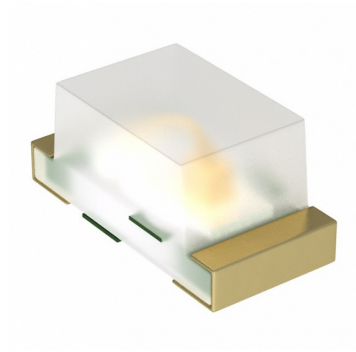


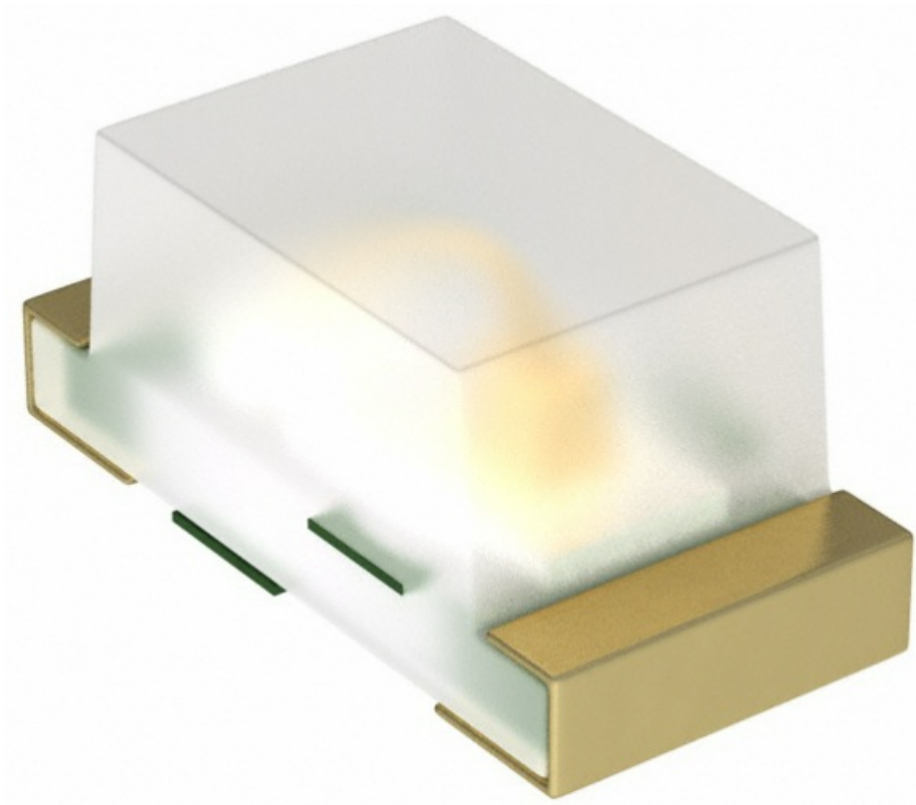


STANLEY 1111C Series Ultra Compact SMT LED User Guide

[Home](#) » [Stanley](#) » STANLEY 1111C Series Ultra Compact SMT LED User Guide 



Product Guide
1111C Series Ultra Compact SMT LED



Contents

- 1 Features
- 2 Applications
- 3 Outline Dimensions
- 4 Electro-Optical Characteristics
- 5 Absolute Maximum Ratings
- 6 Operation Current Derating Chart (DC)
- 7 Spatial Distribution
- 8 Taping Specifications
- 9 Precautions
- 10 Documents / Resources

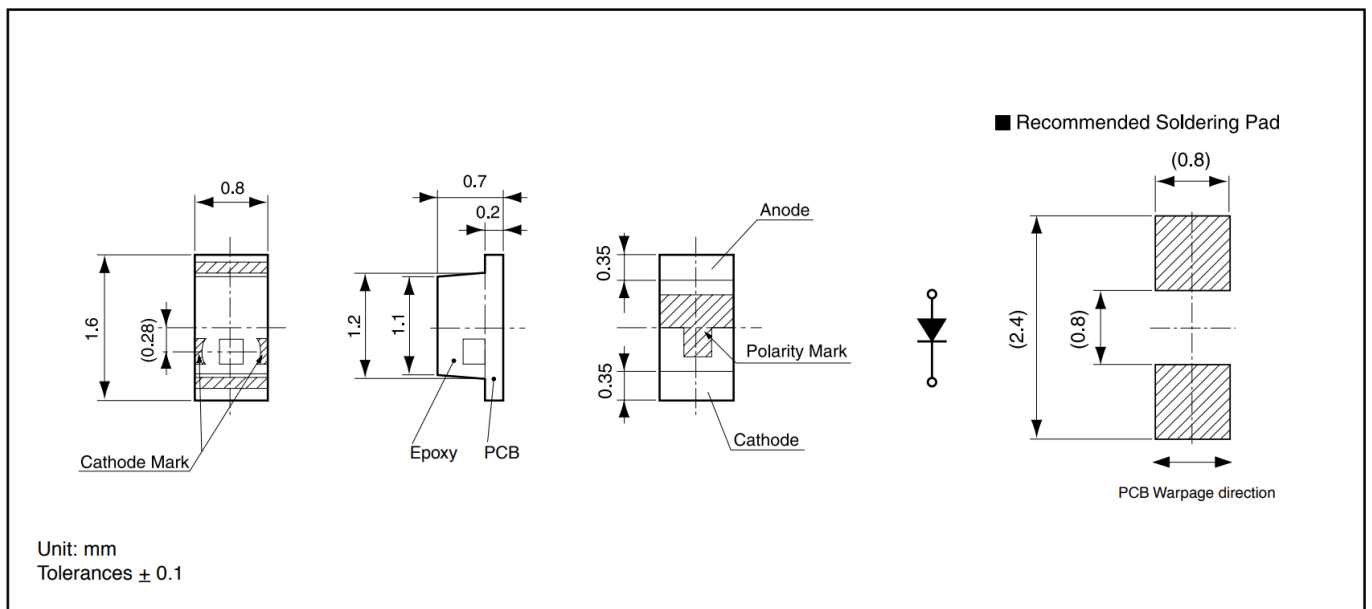
Features

- Meets industry standards for 1608 (0603) footprint
- Provides bright, wide and uniform spatial distribution
- Excellent for cellular telephone key pads,
- LCD backlighting and pager display application.

Applications

- Mobile devices (cellular telephones, PDAs, pagers)
- Industrial / Medical instrumentation

Outline Dimensions



Electro-Optical Characteristics

(Ta=25°C)

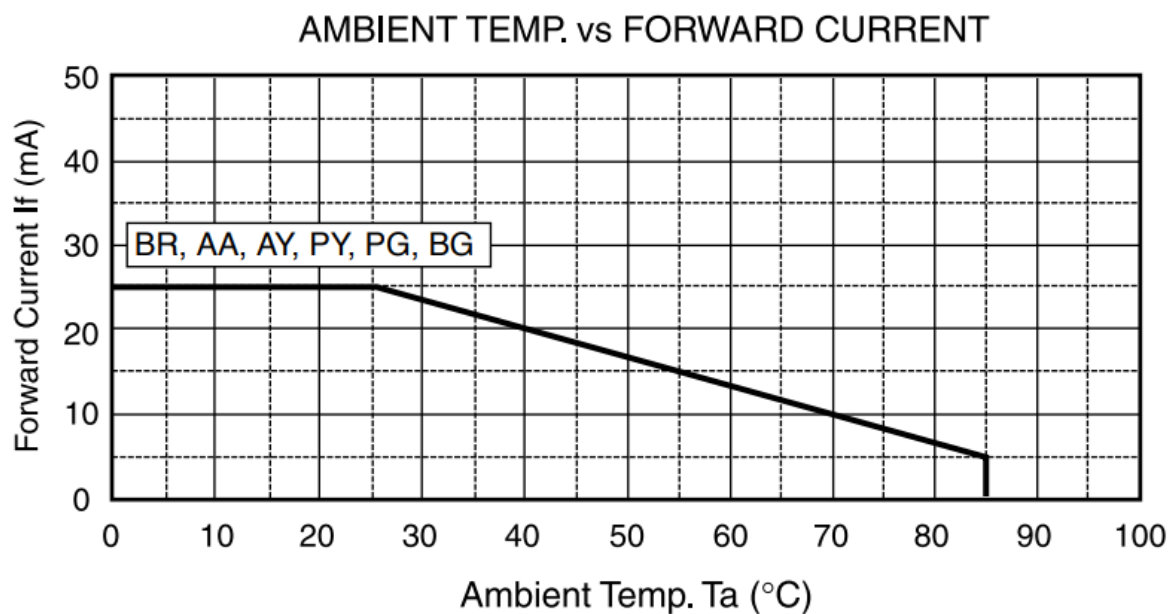
Type No.	Material	Emitted Color	Lens Color	MIN.	Luminous Intensity TYP.	Iv IF	Peak 4 TYP.	Dominant ad TYP.	Wavelength Spectral Line Half Width 9, TYP.	IF	TYP	Forward Voltage MAX.	vr IF	Reverse Current MAX.	IR VR	Viewing Angle (20 1/2)
BR111 1C	GaAl As	Red	Milky White	7.0	11.7	20	660	647	30	20	1.7	2.3	20	100	4	140°
AA111 1C	GaAs P	Orange		2.0	3.4	20	605	606	30	20	2.2	2.8	20	100	4	150°
AY111 1C	GaAs P	Yellow		2.0	3.4	20	580	590	30	20	2.2	2.8	20	100	4	
PY111 1C	GaP	Yellow Green		7.0	11.7	20	570	572	30	20	2.1	2.8	20	100	4	
PG111 1C	GaP	Green		3.8	6.4	20	560	567	30	20	2.1	2.8	20	100	4	
BG111 1C	GaP	Pure Green		1.4	2.4	20	555	558	30	20	2.1	2.8	20	100	4	
Units				mcd		mA	nm			mA	V		mA	pA	V	Deg.

Absolute Maximum Ratings

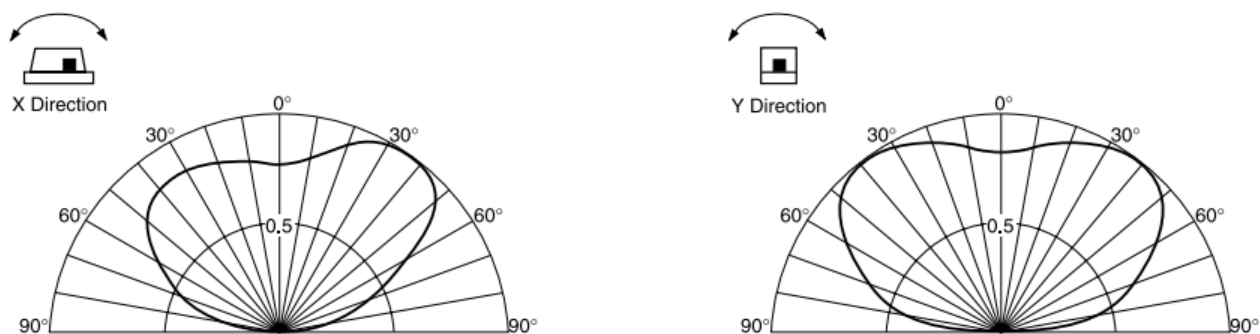
			Red	Orange	Yellow	Yellow Green	Green	Pure Green	Units
Item		Symbol	BR	AA	AY	PY	PG	PY	
Power Dissipation		Pd	58.	70	70	70	70	70	mW
Forward Current		IF	25	25	25	25	25	25	mA
Peak Forward Current		IRA	60	60	60	60	60	60	mA
Reverse Voltage		VR	4	4	4	4	4	4	V
Operating Temperature		Topr	-30 to +85						°C
Storage Temperature		Tstg	-40 to +100						°C
Derating*		AIF	0.36 (DC) 0.86 (Pulse)						mA/°C

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

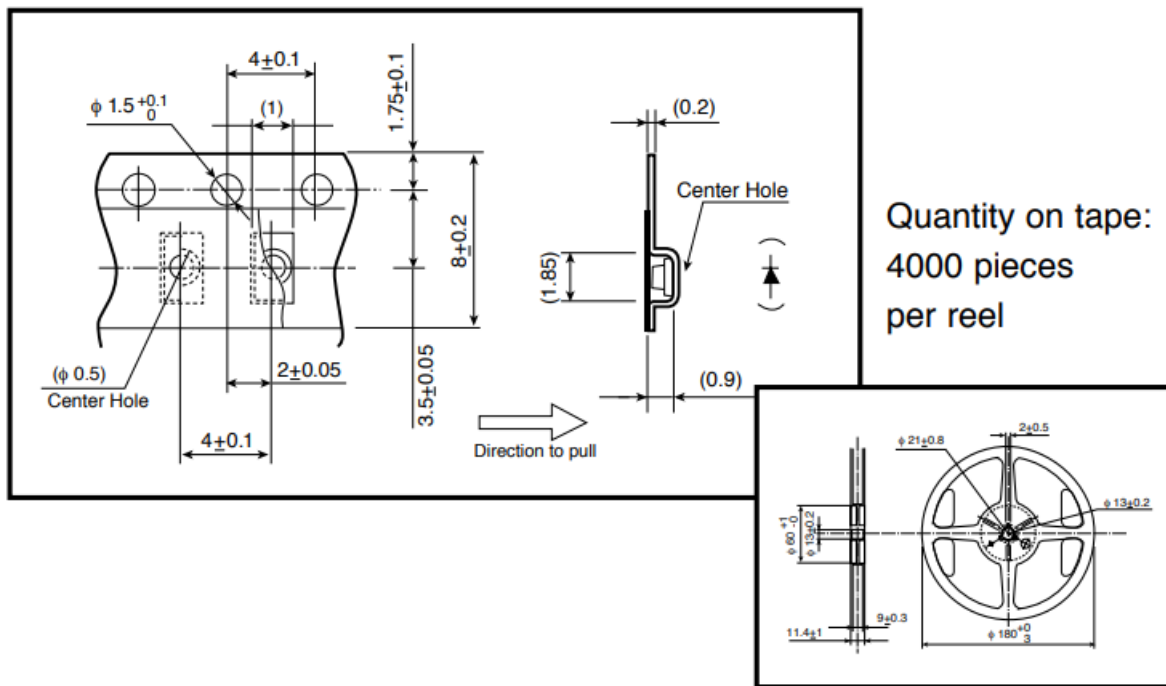
Operation Current Derating Chart (DC)



Spatial Distribution



Taping Specifications

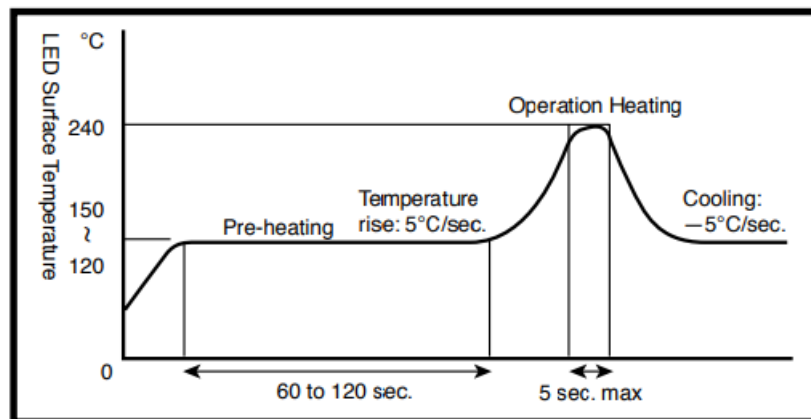


Precautions

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: 280°C max. (30W max.) Soldering time: 3 sec. max.
- Dip soldering: Preheating: 120 ~ 150°C max. (resin surface temp.) 60 ~ 120 sec. max. Bath temperature: 260°C max. Dipping Time: 5 sec. max.
- Reflow Soldering:



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.

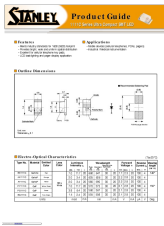
Product specifications subject to change without notice. PG1111C-0301



Stanley Electric Sales of America, Inc.
2660 Barranca Parkway, Irvine, CA 92606
• Tel: 800-LED-LCD1 (533-5231)
• Fax: 949-222-0555
Website: www.stanley-electric.com

Downloaded from Arrow.com.

Documents / Resources

	STANLEY 1111C Series Ultra Compact SMT LED [pdf] User Guide 1111C Series Ultra Compact SMT LED, 1111C Series, Ultra Compact SMT LED, Compact SMT LED, SMT LED, LED
---	--