

Low Current Side View Chip LED (16115)

SMLA12BC7T

● Usage

Source of light for display unit.

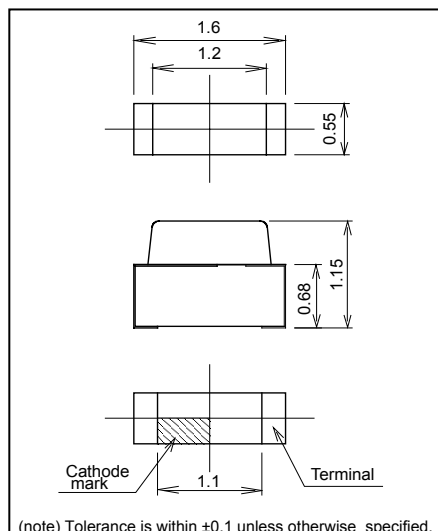
● Features

- 1) Side-view type
- 2) Low current blue LED

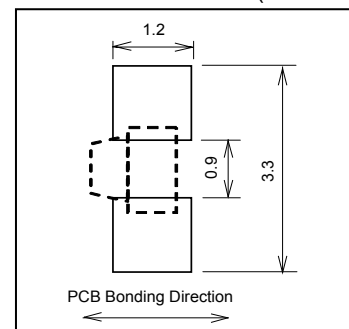
● Construction

InGaN on SiC

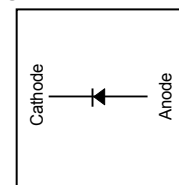
● Dimensions (Unit : mm)



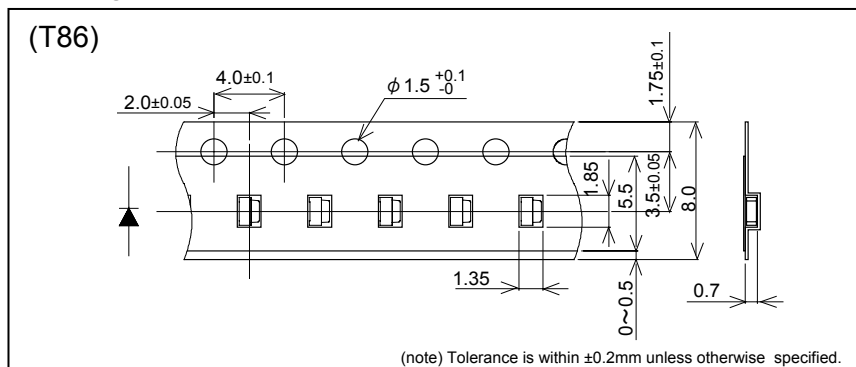
● Recommended pad layout (Unit:mm)



● Circuit diagram



● Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P _D	66	mW
Forward current	I _F	20	mA
Peak forward current	I _{FP}	100	mA *1
Reverse voltage	V _R	5	V
Operating temperature	T _{opr}	-30 to +85	°C
Storage temperature	T _{stg}	-40 to +100	°C

*1 Duty1/10 1kHz

● Luminous classification (Ta=25°C, I_F=5mA)

Symbol	Luminous classification range			
L	5.6	to	9.0	mcd
M	9.0	to	14	mcd
N	14	to	22	mcd
P	22	to	36	mcd

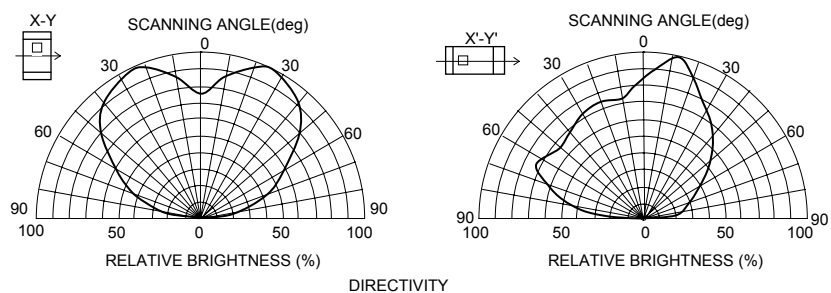
Measurement tolerance : ±10%

● Electrical-Optical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	2.9	3.3	V	I _F =5mA *2
Reverse current	I _R	-	-	100	μA	V _R =5V
Luminous intensity	I _v	5.6	16	36	mcd	I _F =5mA *2
Dominant wavelength *3	λ _D	465	470	475	nm	I _F =5mA *2

*2 Pulse width : 30ms

*3 Measurement tolerance : ±1nm



Notes

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