

Low Current Side View Chip LED (16115)

SMLA12BC7T

● **Usage**

Source of light for display unit.

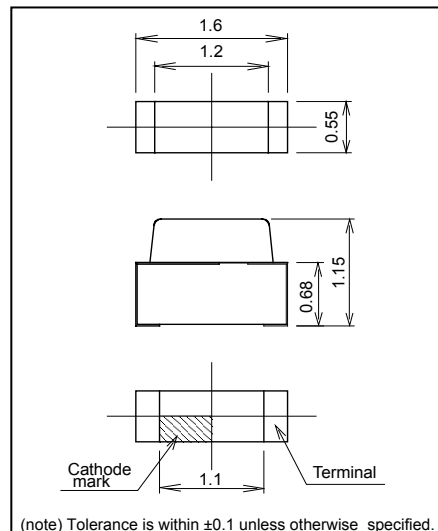
● **Features**

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

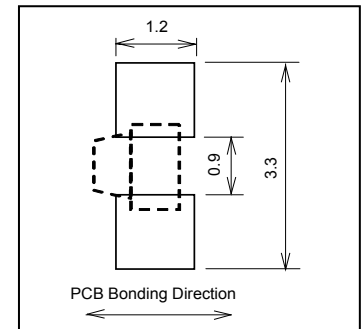
● **Construction**

InGaN on SiC

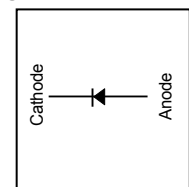
● **Dimensions (Unit : mm)**



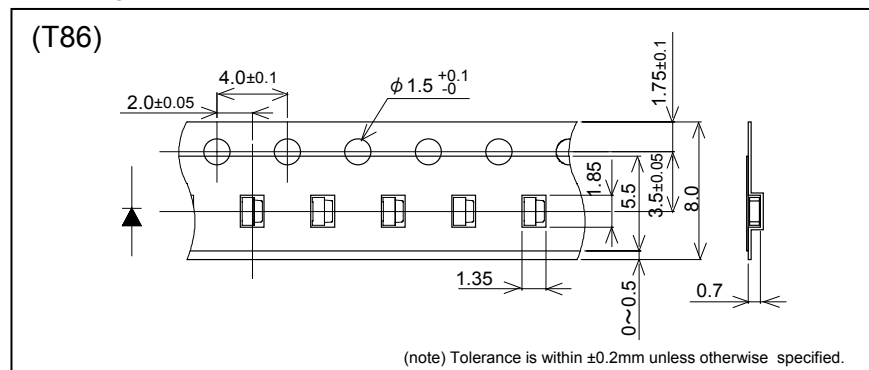
● **Recommended pad layout (Unit:mm)**



● **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, $I_F=5$ mA)**

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

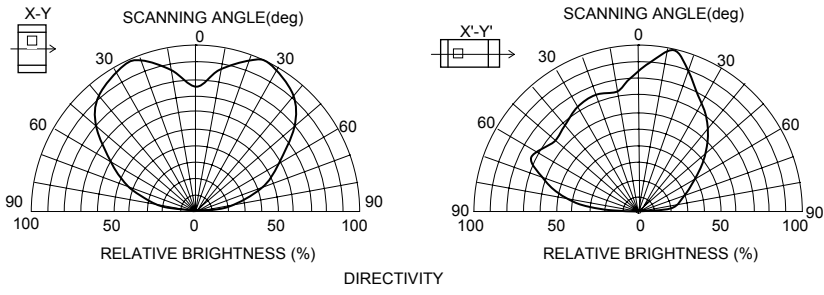
Measurement tolerance : $\pm 10\%$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	2.9	3.3	V	$I_F=5$ mA *2
Reverse current	I_R	-	-	100	μ A	$V_R=5$ V
Luminous intensity	I_v	5.6	16	36	mcd	$I_F=5$ mA *2
Dominant wavelength *3	λ_D	465	470	475	nm	$I_F=5$ mA *2

*2 Pulse width : 30ms

*3 Measurement tolerance : ± 1 nm



Notes

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