SYC SEMICONDUCTORES Y COMPONENTES

LED SPECIFICATION

LED-010-70043

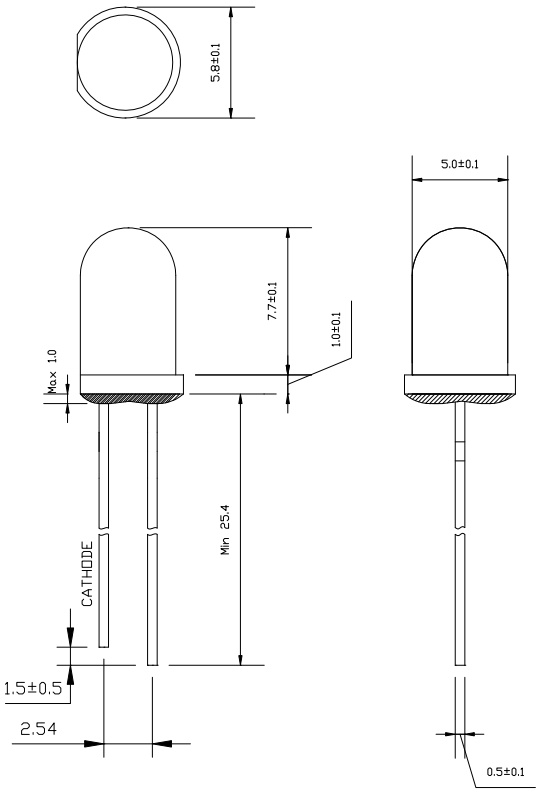


Features：

- Single color
- High bright output
- Low power consumption
- High reliability and long life

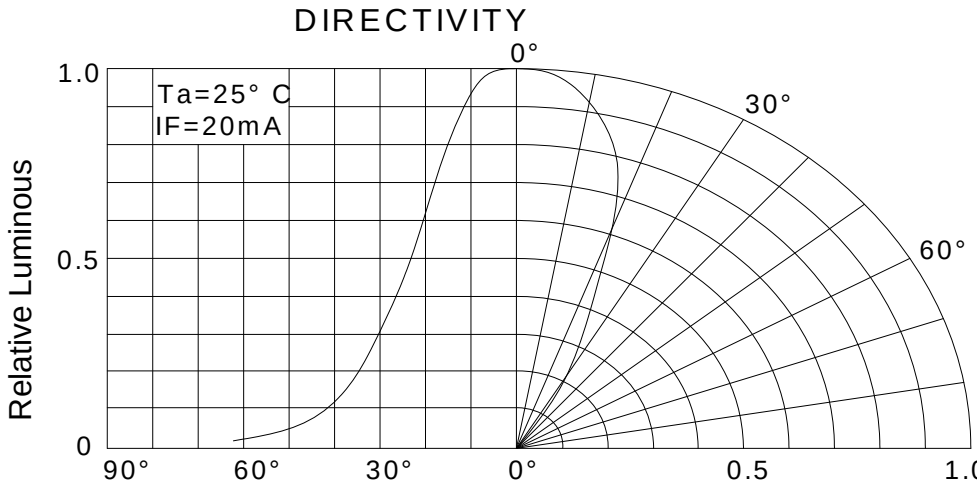
Descriptions：

- Dice material：GaInN
- Emitting Color：Warm color white
- Device Outline：ϕ5mm Round Type
- Lens Type：Water Clear



NOTE:

- All dimensions are millimetres.
- Tolerance is +/-0.25mmunless otherivise noted



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Absolute maximum ratings（Ta = 25℃）

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
Reverse Voltage	V_R	I_R = 30μA	5	--	V
Forward Current	I_F	----	----	30	mA
Power Dissipation	Pd	----	----	108	mW
Pulse Current	Ipeak	Duty=0.1mS，1kHz	----	100	mA
Operating Temperature	Topr	----	-20	+85	℃
Storage Temperature	Tstr	----	-25	+100	℃

Electrical and optical characteristics （Ta = 25℃）

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V_F	I_F = 20mA	----	3.2	3.4	V
Reverse Current	I_R	V_R = 5V	----	----	30	μA
Luminous Intensity	I_V	I_F = 20mA	3000		6000	mcd
Viewing Angle	2θ1/2	I_F = 20mA	----	50	----	Deg.

Luminous Intensity Bins Chart（Ta = 25℃）

Bin	U	V	W	X	Y
Min	1500	2000	3000	4000	6000
Max	2000	3000	4000	6000	8000

Color Temperature Bins Char（Ta = 25℃）

Bin	W0	W1	W2	W3	W4	W5
CCT	<3000	3000-3500	3500-4000	4000-4500	4500-5000	5000-6000
Bin	W6	W7	W8	W9	W10	W00
CCT	6000-7000	7000-8000	8000-10000	10000-15000	15000-20000	>20000

Typical electrical/optical characteristic curves：

