

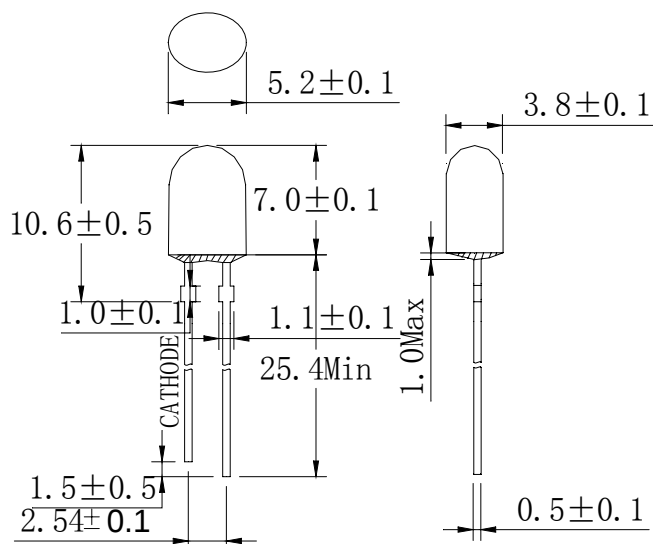
LED-200-40207

Features:

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

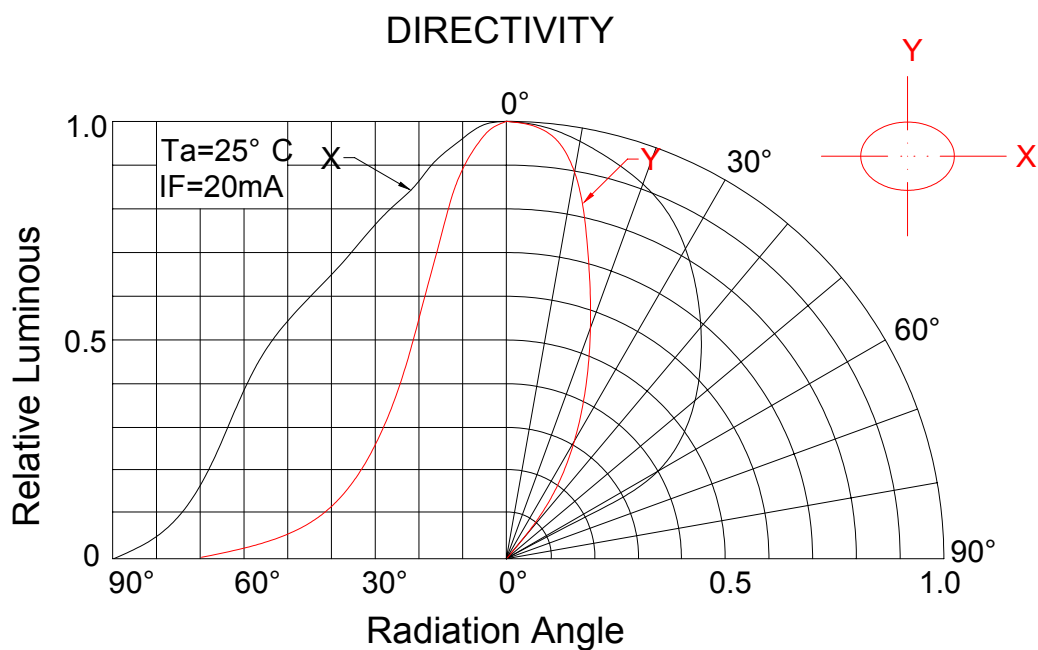
Descriptions:

- Dice material: AlGaInP
- Emitting Color: Super Bright Amber
- Device Outline: 5.2×3.8mm Oval Type
- Lens Type: Yellow Diffused



NOTE:

- All dimensions are millimetres.
- Tolerance is +/-0.25mm unless otherwise noted.



LED SPECIFICATION

Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
Reverse Voltage	VR	IR = 30 μ A	5	--	V
Forward Current	IF	----	----	30	mA
Power Dissipation	Pd	----	----	70	mW
Pulse Current	Ipeak	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature	Topr	----	-20	+85	°C
Storage Temperature	Tstr	----	-25	+100	°C

Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	VF	IF = 20mA		V2~V4		
Reverse Current	IR	VR = 5V	----	----	30	μ A
Dominate Wavelength	λ_d	IF = 20mA		Y2~Y4		
Spectral Line half-width	$\Delta \lambda$	IF = 20mA	----	20	----	nm
Luminous Intensity	IV	IF = 20mA		Q,R		
Viewing Angle	2 θ 1/2	IF = 20mA	----	110/50	---	Deg.

BIN ranking for LEDs

BRIGHTNESS BIN

Bin Code	IV(mcd)	Bin Code	IV(mcd)	Bin Code	IV(mcd)	Bin Code	IV(mcd)
A	0-5.0	H	37.2-52.0	Q	390-550	X	4180--5860
B	5.0-7.0	J	52.0-72.8	R	550-770	Y	5860-8200
C	7.0-9.8	K	72.8-102	S	770-1100	Z1	8-10cd
D	9.8-13.7	L	102-145	T	1100-1520	Z2	10-12cd
E	13.7-19.0	M	145-200	U	1520-2130	Z3	12-14cd
F	19.0-26.6	N	200-280	V	2130-3000	Z4	14-16cd
G	26.6-37.2	P	280-390	W	3000-4180	Z5	16-18cd

WAVELENGTH BIN

Ligth Col.	Bin Code	Wavel. (nm)	Ligth Col.	Bin Code	Wavel. (nm)
BLUE	B1	450-455	YELLOW GREEN	YG1	555-558
	B2	455-460		YG2	558-561
	B3	460-465		YG3	561-564
	B4	465-470		YG4	564-567
	B5	470-475		YG5	567-570
	B6	475-480		YG6	570-573
BLUE GREEN	G1	491-494		YG7	573-576
	G2	494-497	YELLOW	Y1	582-585
	G3	497-500		Y2	585-588
	G4	500-503		Y3	588-591
	G5	503-506		Y4	591-594
	G6	506-509		Y5	594-597
	G7	509-512	YELLOW ORANGE	YO1	597-600
	G8	512-515		YO2	600-603
PURE GREEN	G9	515-518		YO3	603-606
	G10	518-521	PURE ORANGE	YO4	606-609
	G11	521-524		O1	609-612
	G12	524-527		O2	612-615
	G13	527-530	RED	O3	615-618
	G14	530-533		R1	618-621
	G15	533-536		R2	621-624
	G16	536-539		R3	624-627
	G17	539-542		R4	627-630
	G18	542-545		R5	630-633
	G19	545-548		R6	633-636

FORWARD VOLTAGE (VF) BIN

Bin Code	VF (V)	Bin Code	VF (V)	Bin Code	VF (V)	Bin Code	VF (V)
V1	1.6-1.8	V5	2.4-2.6	V9	3.2-3.4	V13	4.0-4.2
V2	1.8-2.0	V6	2.6-2.8	V10	3.4-3.6	V14	4.2-4.4
V3	2.0-2.2	V7	2.8-3.0	V11	3.6-3.8	V15	4.4-4.6
V4	2.2-2.4	V8	3.0-3.2	V12	3.8-4.0	V16	4.6-4.8

LED SPECIFICATION

Typical electrical/optical characteristic curves:

