



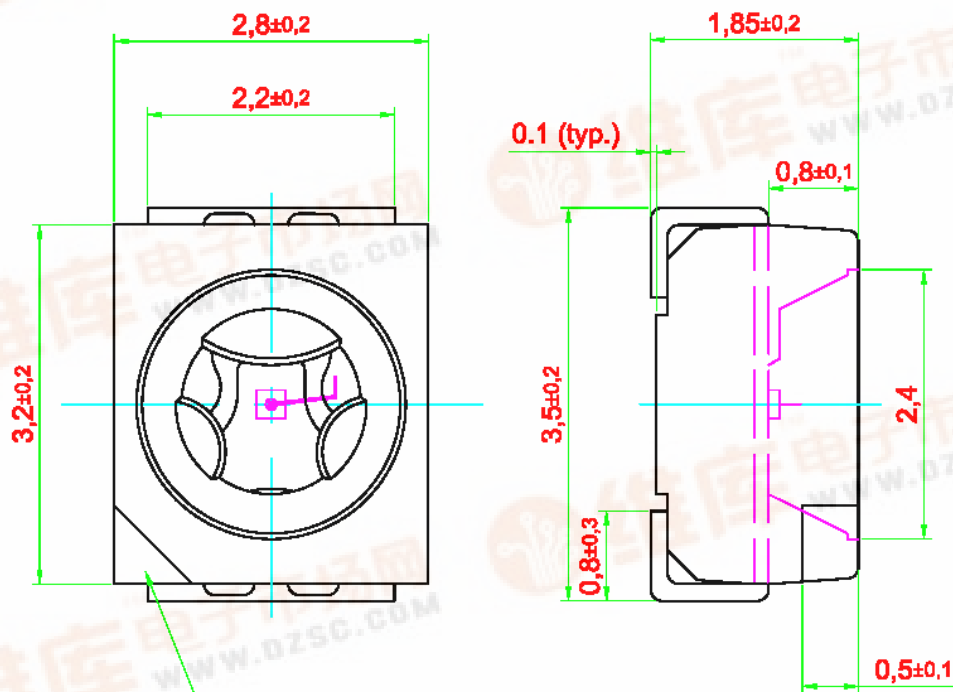
AMERICAN BRIGHT OPTOELECTRONICS CORP.

Gap DOMILED BL-PDP-GJS Series

● **Feature:**

1. Surface mount LED.
2. 120° viewing angle.
3. Small package outline (LxWxH) of 3.2 x 2.8 x 1.8 mm.
4. Qualified according to JEDEC moisture sensitivity Level 2.
5. Compatible to both IR reflow soldering and TTW soldering.

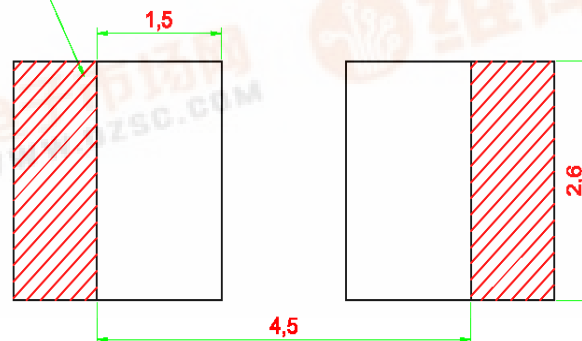
● **Package Dimension:**



Cathode marking.

Recommended Solder Pad

Additional Cu area for improved heat dissipation.



Solder resist.



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● Optical Characteristics:

Part Number	Chip Technology / Color	Luminous Intensity @ $I_f = 10\text{mA}$ I_v (mcd)
BL-PDP-GJS-C10 - BIN G1 - BIN G2 - BIN H1 - BIN H2	GaP / Green, 560 nm	1.80 ... 4.50 1.80 ... 2.24 2.24 ... 2.80 2.80 ... 3.55 3.55 ... 4.50

Forward voltage @ $I_f = 10\text{ mA}$.	Chip Type	Viewing angle at 50% I_v	Reverse current, I_R @ $V_R = 5\text{V}$, (max)
2.05 V (typ.); 2.45 V (max)	GaP	120°	100 μA

NOTE:

1. Other luminous intensity groups are also available upon request.
2. Luminous intensity is measured with an accuracy of $\pm 11\%$.
3. Wavelength binning is carried for all units as per the wavelength-binning table. Only one wavelength group is allowed for each reel.
4. An optional V_f binning is also available upon request. Binning scheme is as per following table.

● Absolute Maximum Ratings:

	Maximum Value	Unit
DC forward current.	30	mA
Peak pulse current; ($t_p \leq 10\text{ }\mu\text{s}$, Duty cycle = 0.005)	500	mA
Reverse voltage.	5	V
LED junction temperature.	100	°C
Operating temperature.	-40 ... +100	°C
Storage temperature.	-40 ... +100	°C
Power dissipation (at room temperature)	75	mW

● V_f Binning:

V_f Bin @ 10mA	Forward voltage (V)
01	1.25 ... 1.55
02	1.55 ... 1.85
03	1.85 ... 2.15
04	2.15 ... 2.45



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● Wavelength Grouping:

Color	Group	Wavelength distribution (nm)
BL-PDP; Pure Green	Full	552.5 – 564.5
	W	552.5 – 555.5
	X	555.5 – 558.5
	Y	558.5 – 561.5
	Z	561.5 – 564.5

Wavelength is measured with an accuracy of ± 1 nm.

● Typical electro-optical characteristics curves:

Fig. 1 Relative luminous intensity vs. forward current.

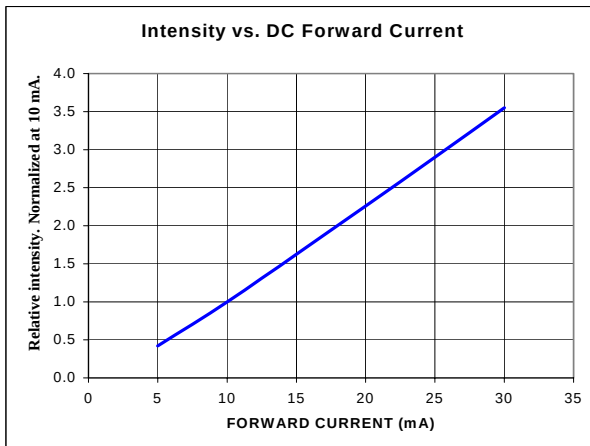


Fig. 2 Forward current vs. forward voltage.

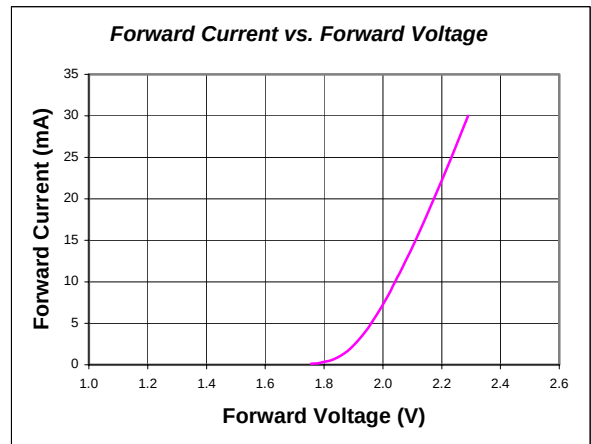


Fig. 3 Radiation pattern

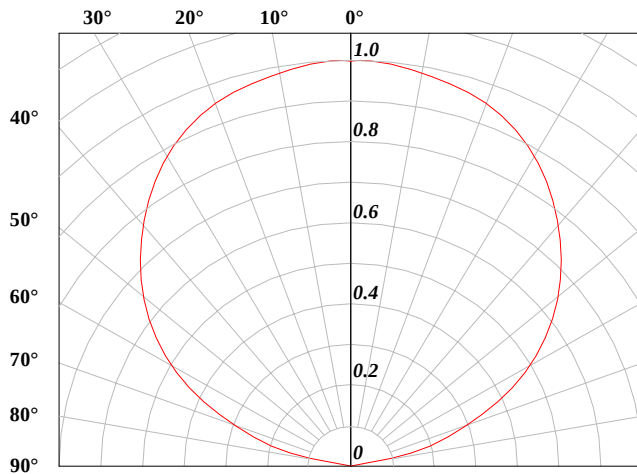


Fig. 4 Maximum forward current vs. temperature

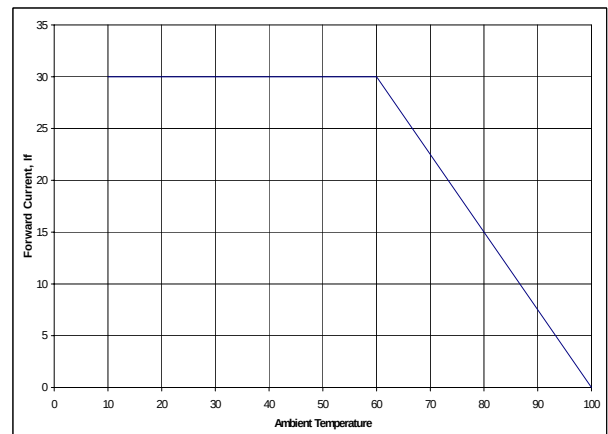




Fig. 5 Recommended IR-reflow Soldering Profile (acc. to IPC 9501)

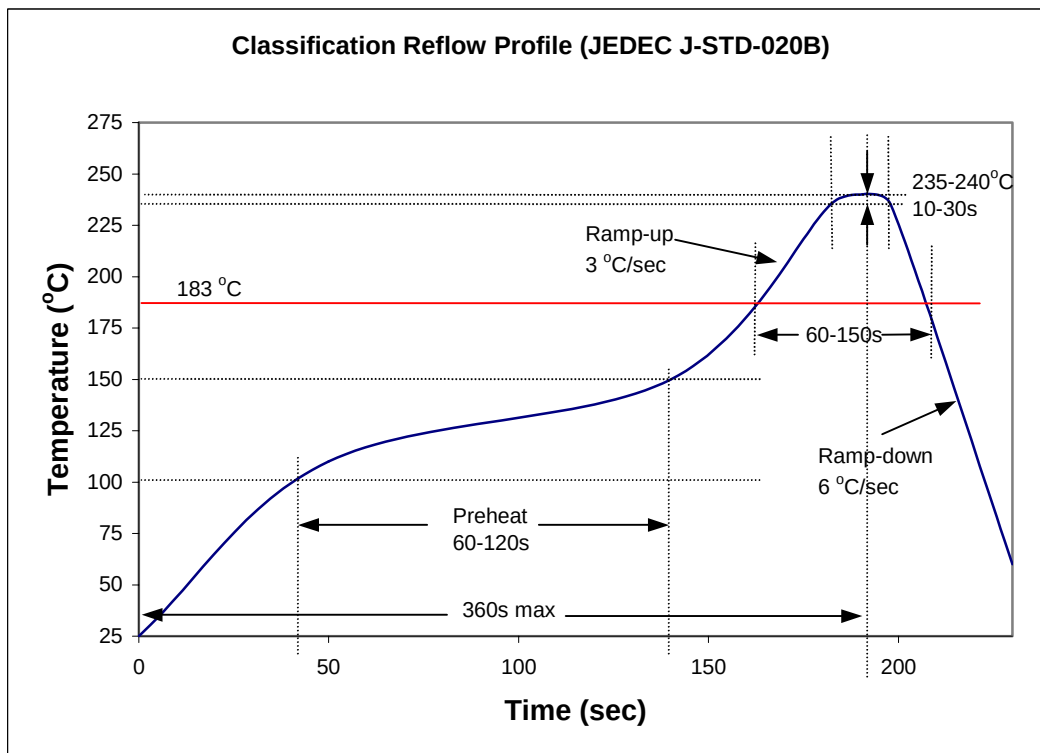
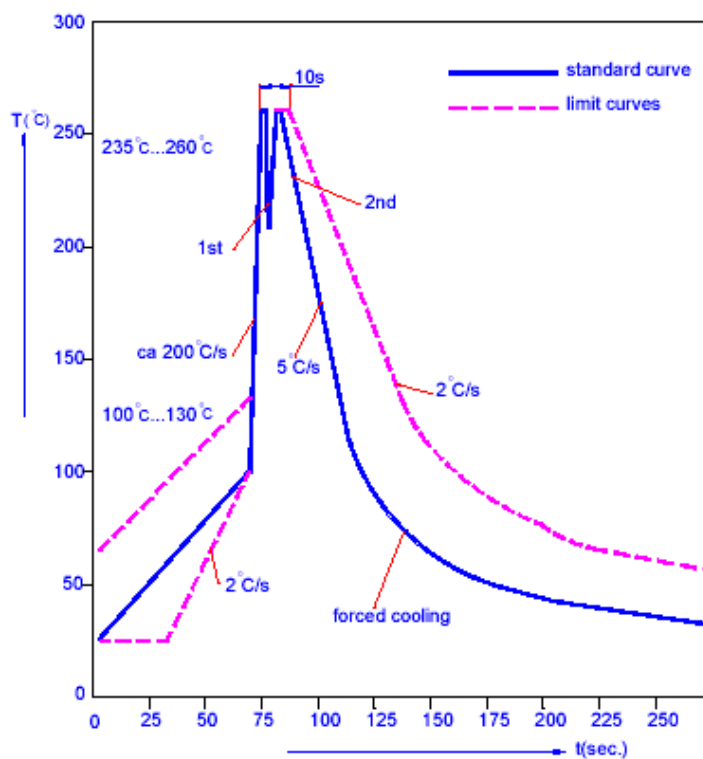


Fig. 6 Recommended TTW Soldering Profile (acc. to CECC 00802).



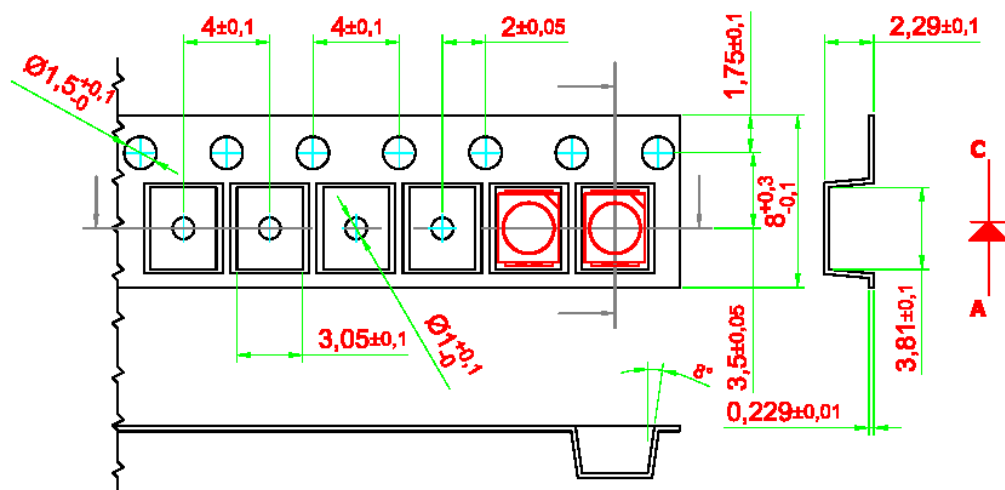


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● Taping And Orientation.

Reels come in quantity of 2000 units. Reel diameters is 180 mm .



200 mm min. for Ø180 reel.

200 mm min. for Ø330 reel.

480 mm min. for Ø180 reel.

960 mm min. for Ø330 reel.

