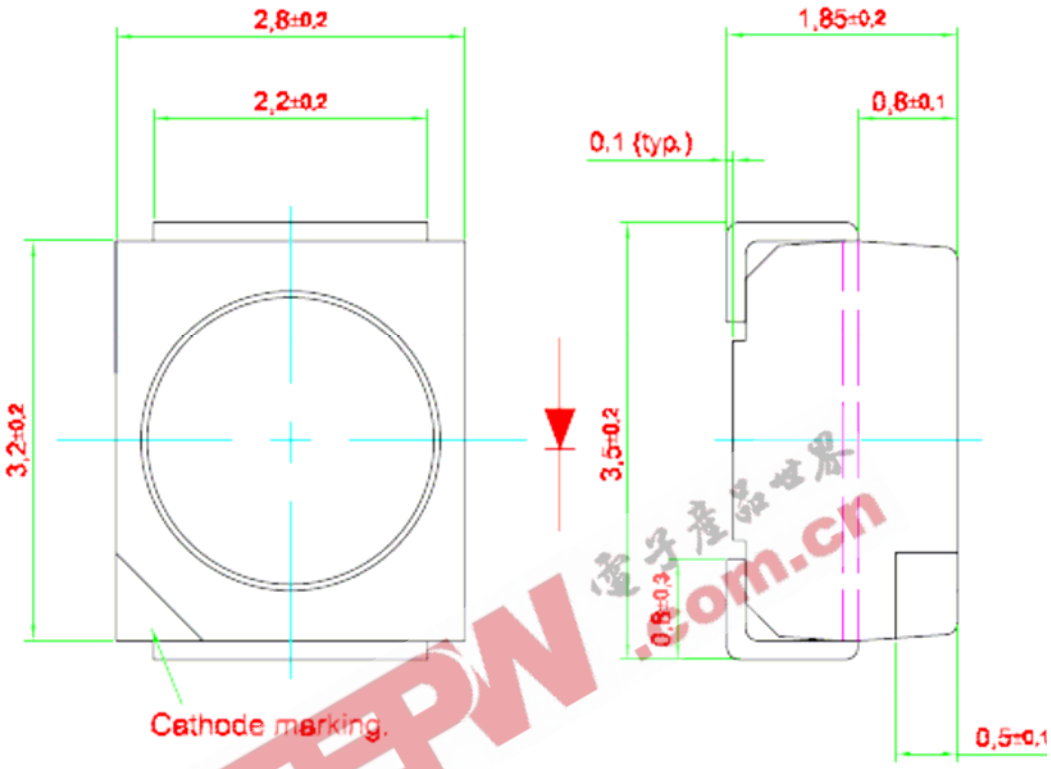
DomiLED – GaP : DDx-GJS-I1



- Low current surface mount LED.
- 120° viewing angle.
- Small package outline (LxWxH) of 3.2 x 2.8 x 1.8 mm.
- Qualified according to JEDEC moisture sensitivity Level 2.
- Compatible to both IR reflow soldering and TTW soldering.

Part Ordering Number	Chip Technology / Color	Luminous Intensity @ If = 10mA Iv (mcd)
DDR-GJS-J2L1-1-I1 • DDR-GJS-J2 • DDR-GJS-K1 • DDR-GJS-K2 • DDR-GJS-L1	GaP / Red, 625 nm	**5.6 … 14.0** 5.6 … 7.2 7.2 … 9.0 9.0 … 11.2 11.2 … 14.0
DDO-GJS-H2K1-1-I1 • DDO-GJS-H2 • DDO-GJS-J1 • DDO-GJS-J2 • DDO-GJS-K1	GaP / Orange, 605 nm	**3.55 … 9.0** 3.55 … 4.5 4.5 … 5.6 5.6 … 7.2 7.2 … 9.0
DDY-GJS- H2K1-1-I1 • DDY-GJS-H2 • DDY-GJS-J1 • DDY-GJS-J2 • DDY-GJS-K1	GaP / Yellow, 587 nm	**3.55 … 9.0** 3.55 … 4.5 4.5 … 5.6 5.6 … 7.2 7.2 … 9.0
DDG-GJS- KL2-1-I1 • DDG-GJS-K1 • DDG-GJS-K2 • DDG-GJS-L1 • DDG-GJS-L2	GaP / Green, 570 nm	**7.2 … 18.0** 7.2 … 9.0 9.0 … 11.2 11.2 … 14.0 14.0 … 18.0
DDP-GJS-GH2-1-I1 • DDP-GJS-G1 • DDP-GJS-G2 • DDP-GJS-H1 • DDP-GJS-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

NOTE:

1. All part number above comes in a quantity of 2000 units per reel.
2. Luminous intensity is measured with an accuracy of ±11%.
3. Wavelength binning is carried for all units as per the wavelength-binning table. Only one wavelength group is allowed for each reel.

Characteristics.

Forward voltage @ If=10 mA.	Chip Type	Viewing angle at 50% Iv	Max reverse current, I_R @ V_R = 5V.
2.05 V (typ.); 2.45 V (max)	GaP	120°	100 μA

All forward voltages are measured using a current pulse of 1 ms and has an accuracy of ±0.1 V.

Wavelength Grouping.

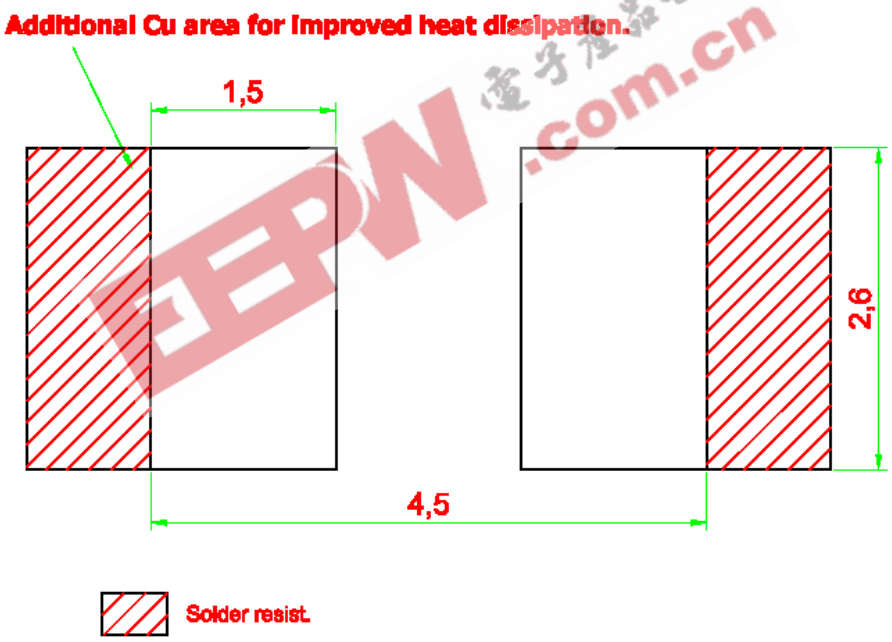
Color	Group	Wavelength distribution (nm)
DDR; Red	Full	620 – 635
DDO; Orange	Full	600 – 612
	W	600 - 603
	X	603 - 606
	Y	606 - 609
	Z	609 - 612
DDY; Yellow	Full	582 – 594
	W	582 – 585
	X	585 – 588
	Y	588 - 591
	Z	591 - 594
DDG; Green	Full	564.5 – 576.5
	W	564.5 – 567.5
	X	567.5 – 570.5
	Y	570.5 – 573.5
	Z	573.5 – 576.5
DDP; 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

Dominant wavelength is measured with an accuracy of ±1 nm.

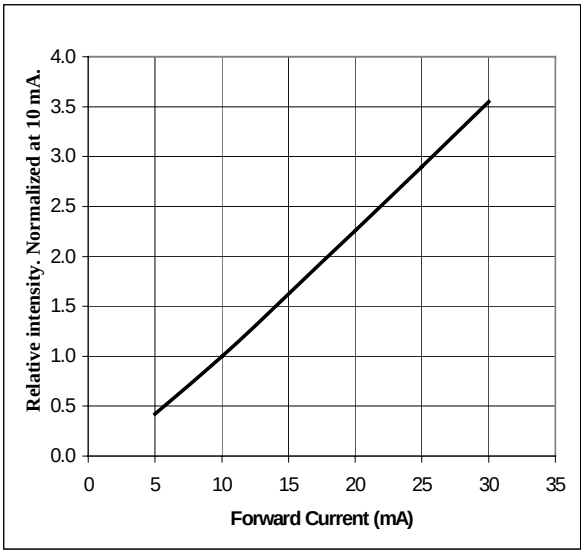
Absolute Maximum Ratings.

	Maximum Value	Unit
DC forward current.	30	mA
Peak pulse current; (tp ≤ 10 μs, 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

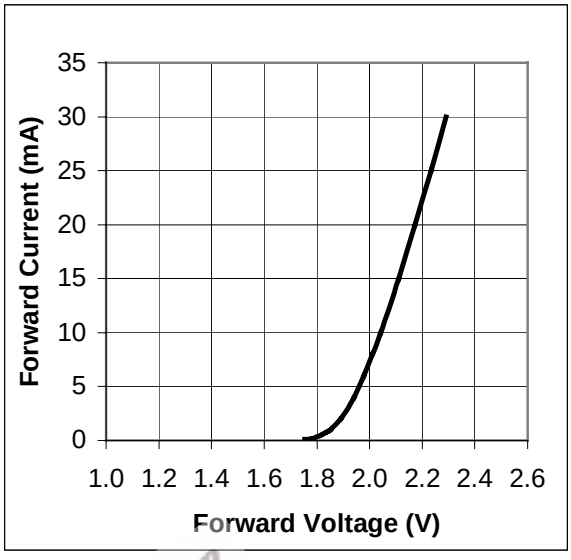
Recommended Solder Pad



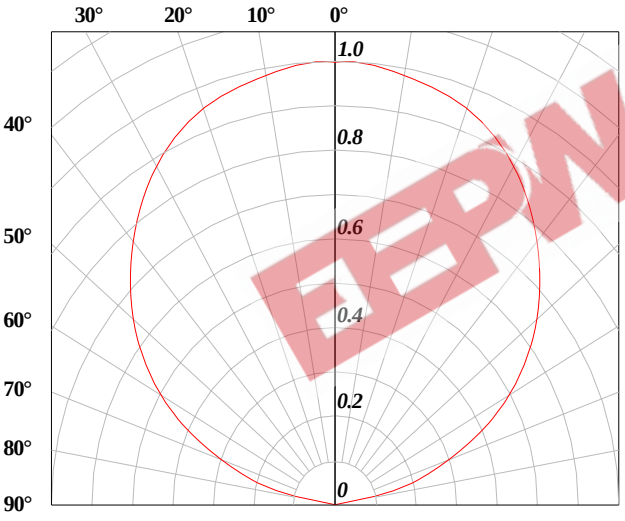
Relative luminous intensity vs. forward current.



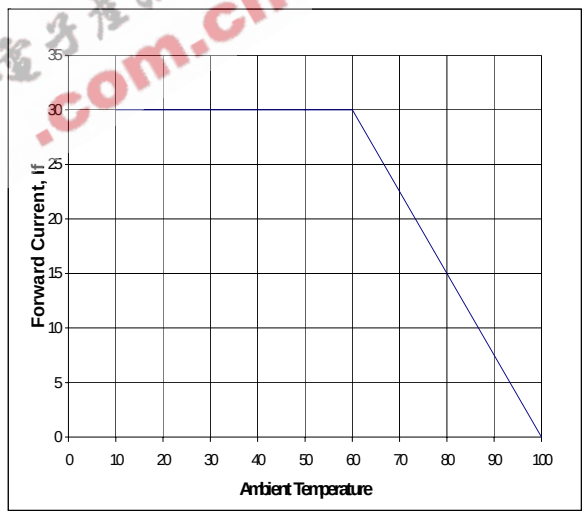
Forward current vs. forward voltage.



Radiation pattern.



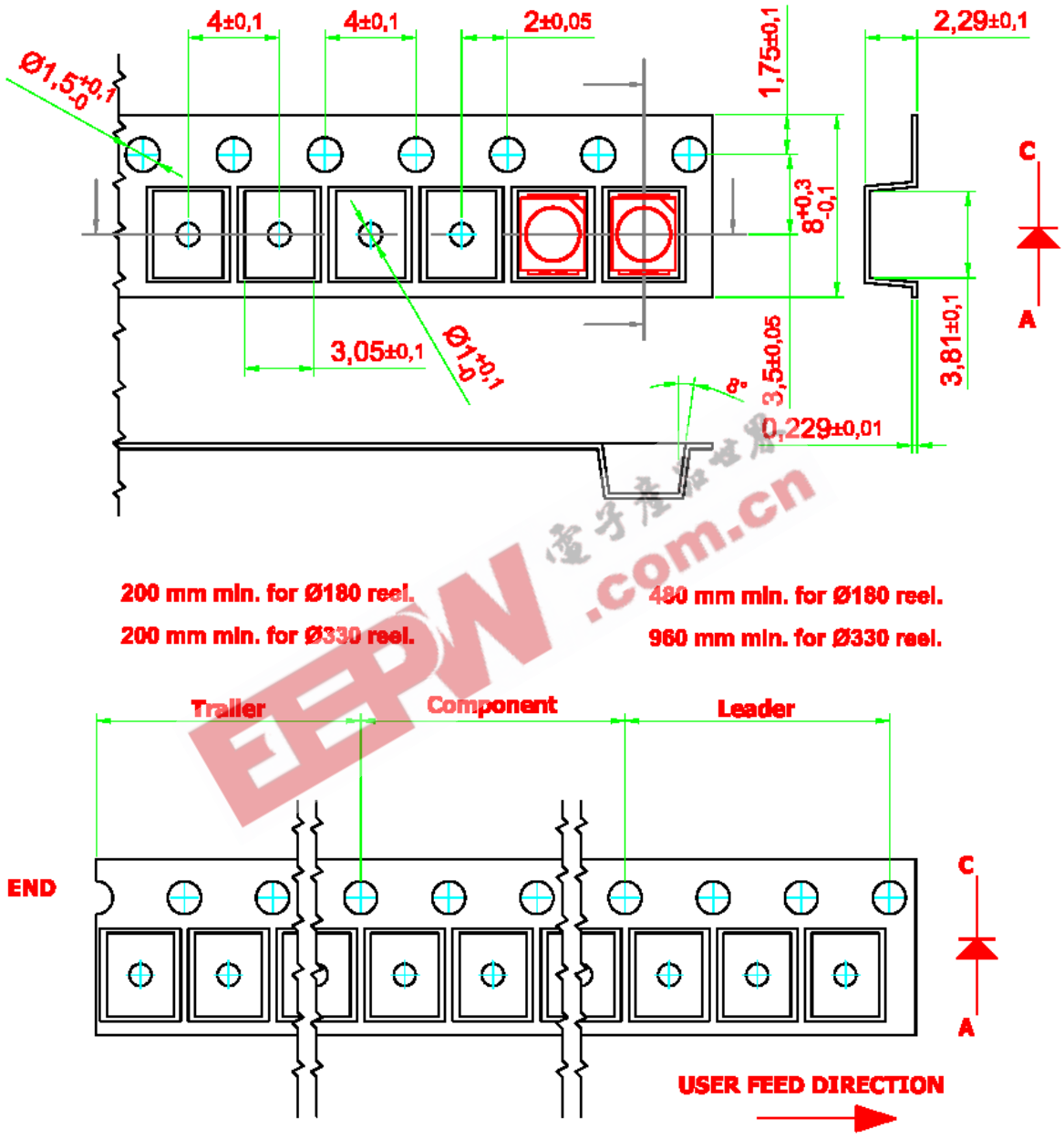
Maximum forward current vs. temperature.



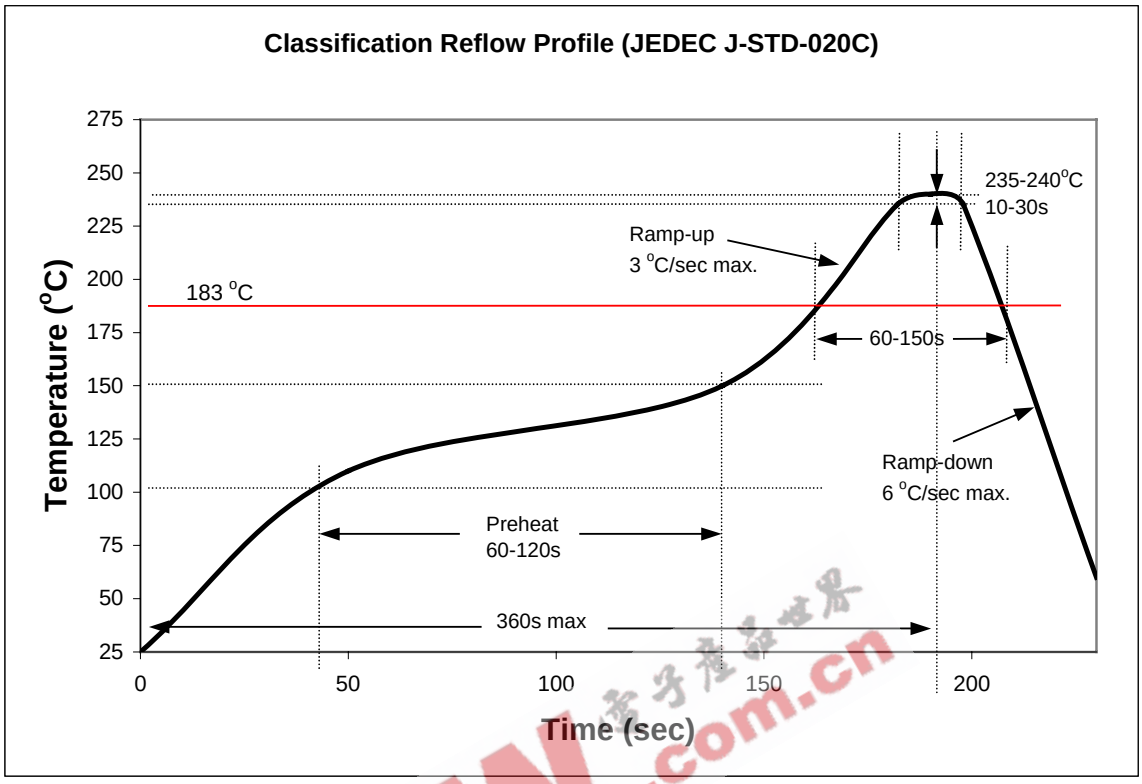
Taping And Orientation.

Reels come in quantity of 2000 units.

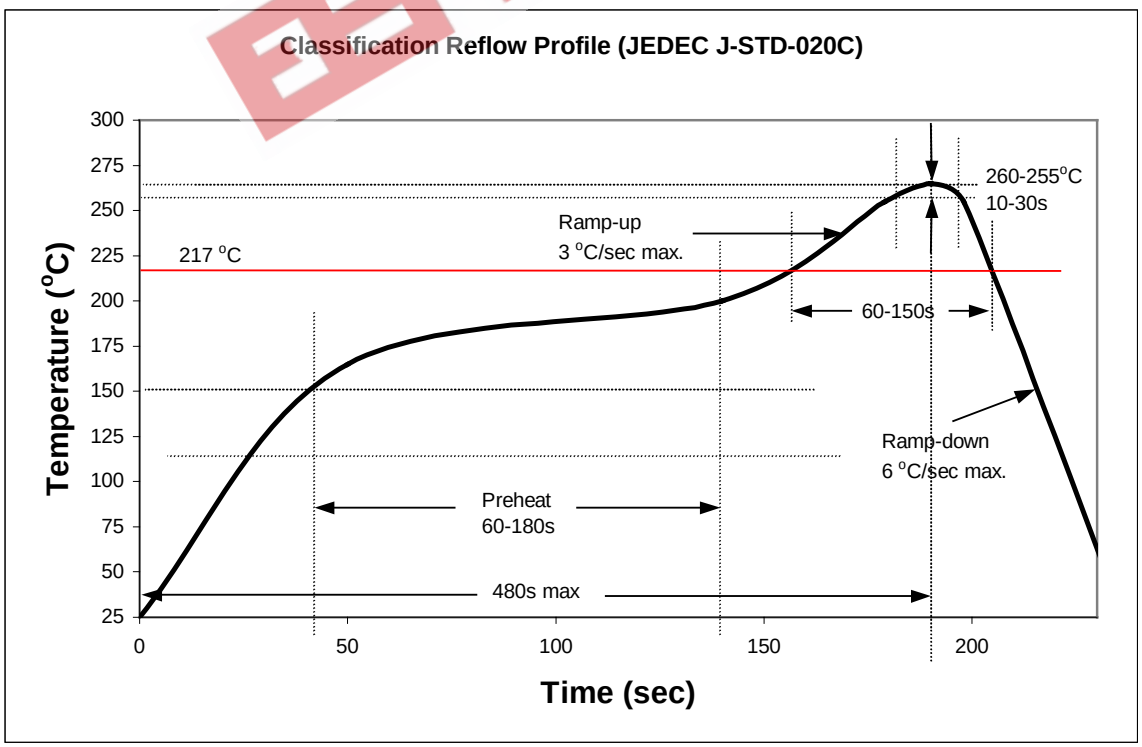
Reel diameter is 180 mm .



Recommended Sn-Pb IR-Reflow Soldering Profile.



Recommended Pb Free IR-Reflow Soldering Profile.



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