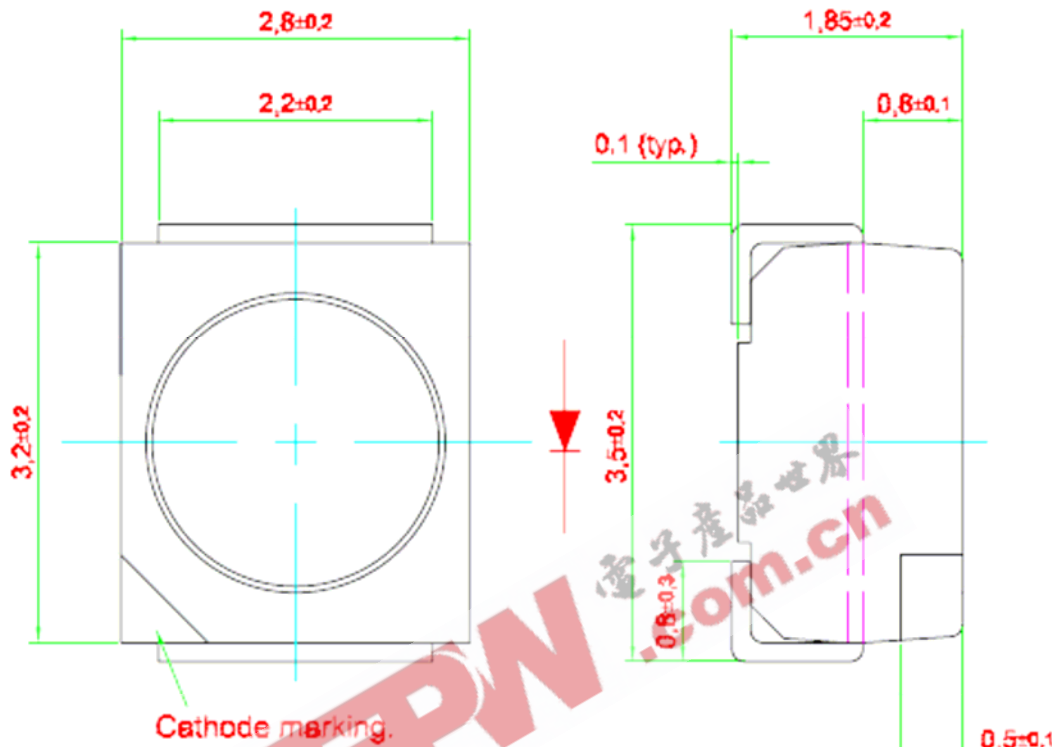


DomiLED – GaP : DDx-GJS-I1



- 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 lv ( mcd )
<b>DDR-GJS-J2L1-1-I1</b> <ul style="list-style-type: none"> <li>• DDR-GJS-J2</li> <li>• DDR-GJS-K1</li> <li>• DDR-GJS-K2</li> <li>• DDR-GJS-L1</li> </ul>	GaP / Red, 625 nm	<b>5.6 ... 14.0</b> 5.6 ... 7.2 7.2 ... 9.0 9.0 ... 11.2 11.2 ... 14.0
<b>DDO-GJS-H2K1-1-I1</b> <ul style="list-style-type: none"> <li>• DDO-GJS-H2</li> <li>• DDO-GJS-J1</li> <li>• DDO-GJS-J2</li> <li>• DDO-GJS-K1</li> </ul>	GaP / Orange, 605 nm	<b>3.55 ... 9.0</b> 3.55 ... 4.5 4.5 ... 5.6 5.6 ... 7.2 7.2 ... 9.0
<b>DDY-GJS- H2K1-1-I1</b> <ul style="list-style-type: none"> <li>• DDY-GJS-H2</li> <li>• DDY-GJS-J1</li> <li>• DDY-GJS-J2</li> <li>• DDY-GJS-K1</li> </ul>	GaP / Yellow, 587 nm	<b>3.55 ... 9.0</b> 3.55 ... 4.5 4.5 ... 5.6 5.6 ... 7.2 7.2 ... 9.0
<b>DDG-GJS- KL2-1-I1</b> <ul style="list-style-type: none"> <li>• DDG-GJS-K1</li> <li>• DDG-GJS-K2</li> <li>• DDG-GJS-L1</li> <li>• DDG-GJS-L2</li> </ul>	GaP / Green, 570 nm	<b>7.2 ... 18.0</b> 7.2 ... 9.0 9.0 ... 11.2 11.2 ... 14.0 14.0 ... 18.0
<b>DDP-GJS-GH2-1-I1</b> <ul style="list-style-type: none"> <li>• DDP-GJS-G1</li> <li>• DDP-GJS-G2</li> <li>• DDP-GJS-H1</li> <li>• DDP-GJS-H2</li> </ul>	GaP / Green, 560 nm	<b>1.80 ... 4.50</b> 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  $\pm 11\%$ .
3. Wavelength binning is carried for all units as per the wavelength-binning table. Only one wavelength group is allowed for each reel.

## DOMINANT Semiconductors

### Characteristics.

Forward voltage @ $I_f=10$ mA.	Chip Type	Viewing angle at 50% $I_v$	Max reverse current, $I_R$ @ $V_R = 5V$ .
2.05 V (typ.); 2.45 V (max)	GaP	120°	100 $\mu A$

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

### Wavelength Grouping.

Color	Group	Wavelength distribution (nm)
DDR; Red	Full	620 – 635
	W	600 – 612
DDO; Orange	W	600 - 603
	X	603 - 606
	Y	606 - 609
	Z	609 - 612
	Full	620 – 635
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  $\pm 1$  nm.

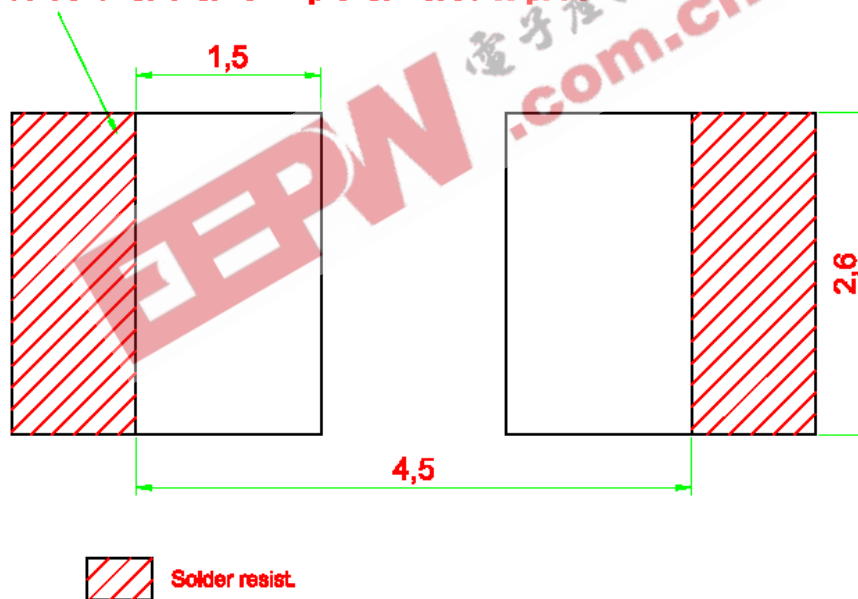
## DOMINANT Semiconductors

### Absolute Maximum Ratings.

	Maximum Value	Unit
DC forward current.	30	mA
Peak pulse current; ( $t_p \leq 10 \mu\text{s}$ , 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

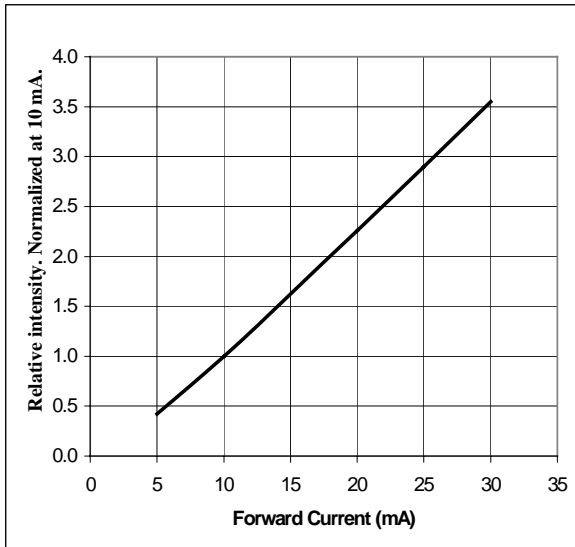
### Recommended Solder Pad

Additional Cu area for improved heat dissipation.

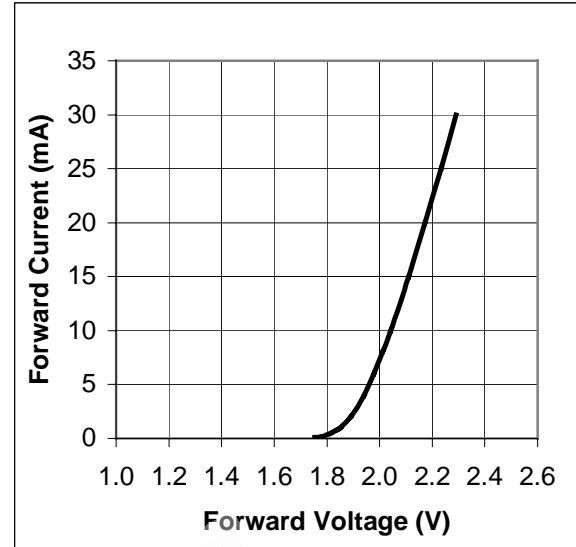


# DOMINANT Semiconductors

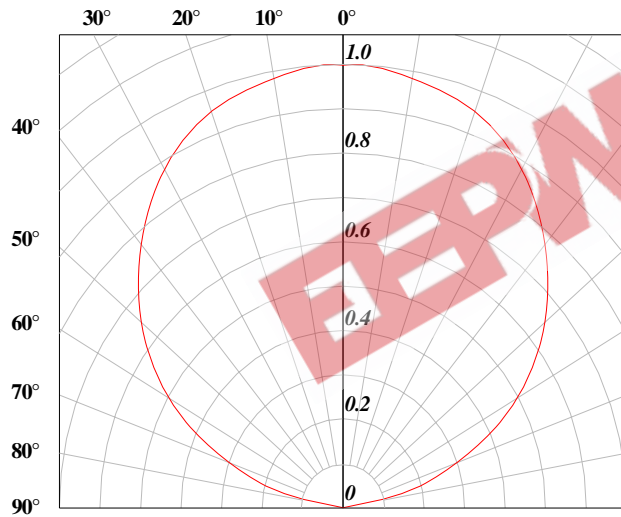
Relative luminous intensity vs. forward current.



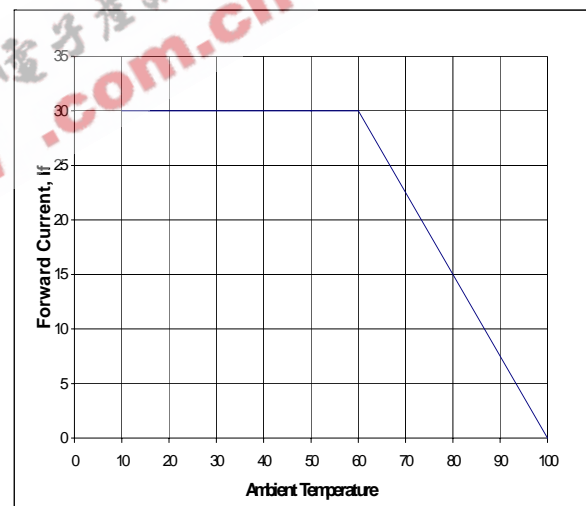
Forward current vs. forward voltage.



Radiation pattern.



Maximum forward current vs. temperature.

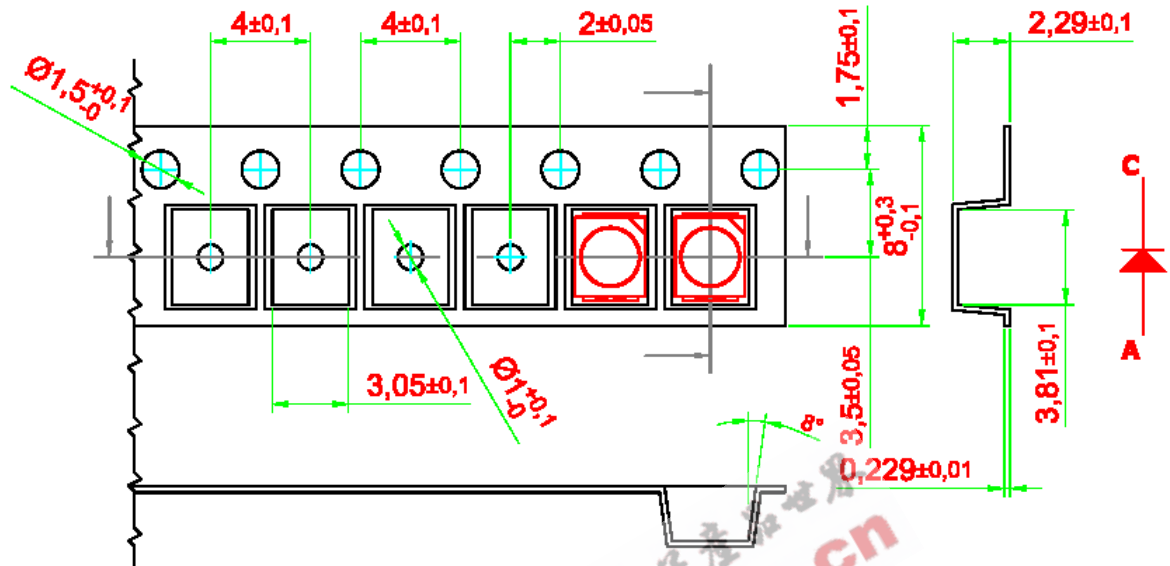


# DOMINANT Semiconductors

## Taping And Orientation.

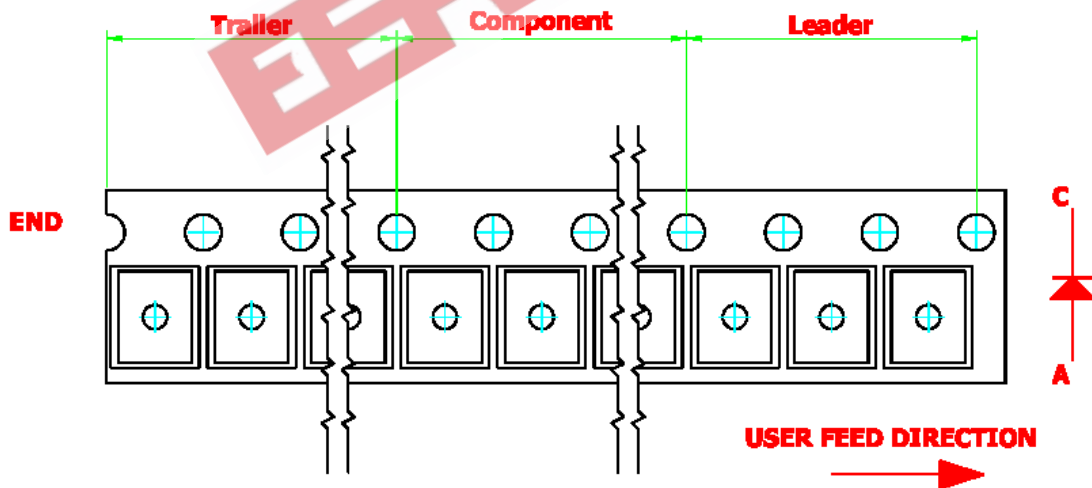
Reels come in quantity of 2000 units.

Reel diameter is 180 mm .

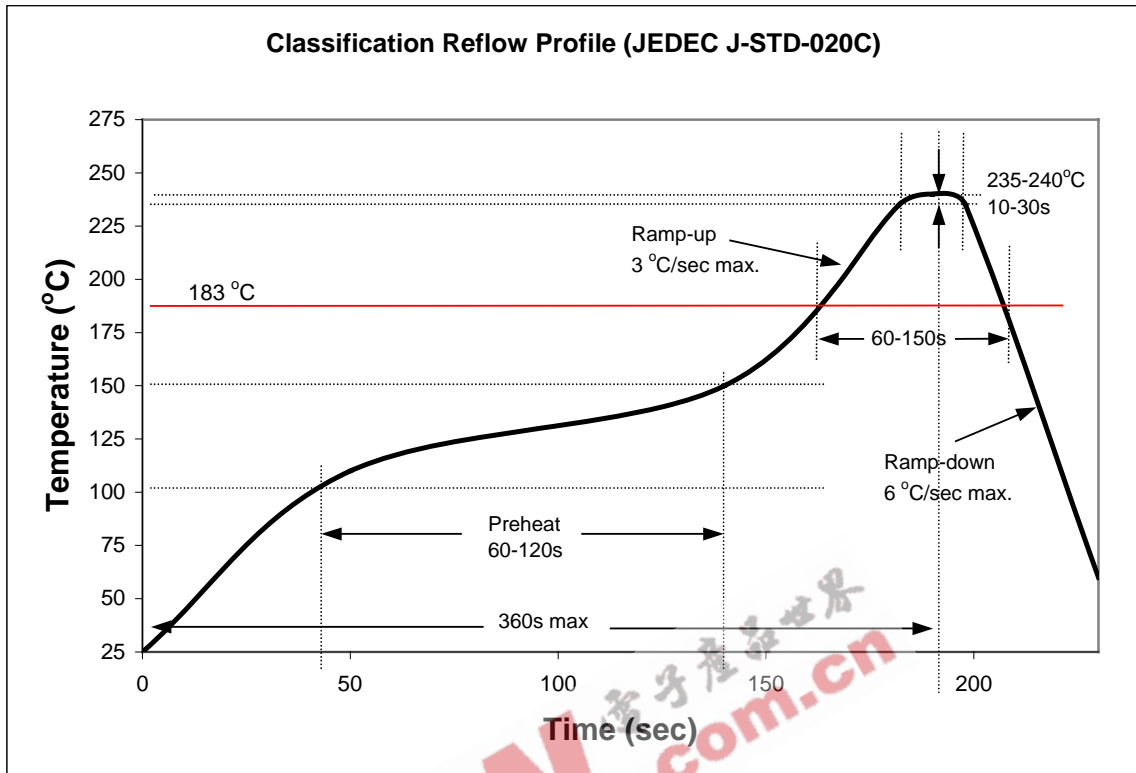


200 mm min. for  $\varnothing 180$  reel.  
200 mm min. for  $\varnothing 330$  reel.

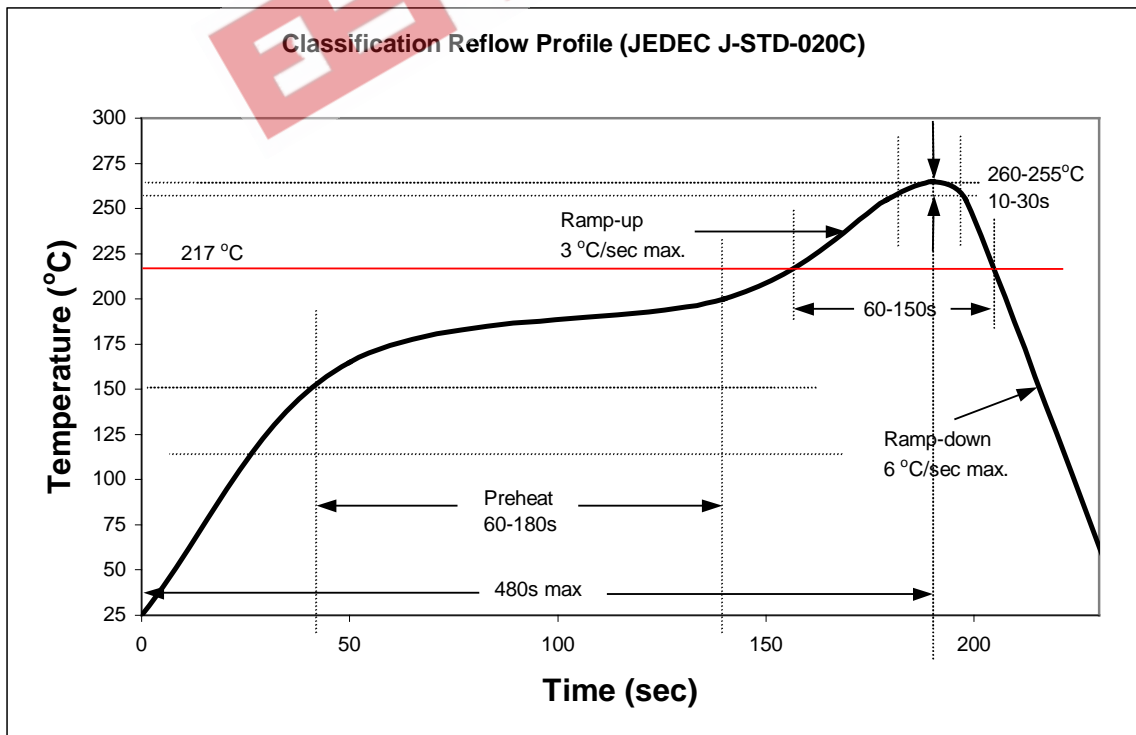
480 mm min. for  $\varnothing 180$  reel.  
960 mm min. for  $\varnothing 330$  reel.



**Recommended Sn-Pb IR-Reflow Soldering Profile.**



**Recommended Pb Free IR-Reflow Soldering Profile.**



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### NOTE.

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