

### Multi DomiLED<sup>™</sup>

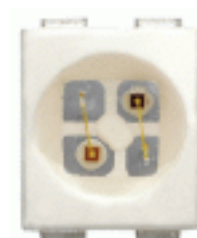
Synonymous with function and performance, the Multi DomiLED<sup>™</sup> series is perfectly suited for a variety of cross-industrial applications due to its small package outline, durability and superior brightness.

### Features:

- > High brightness bi-color surface mount LED.
- > 120° viewing angle.
- > Small package outline (LxWxH) of 3.2 x 2.8 x 1.8mm.
- > Qualified according to JEDEC moisture sensitivity Level 2.
- > Compatible to both IR reflow soldering and TTW soldering.
- > Environmental friendly; RoHS compliance.

### Applications:

- > Automotive: interior applications, eg: switches, telematics, climate control system, dashboard, etc.
- > Consumer Appliances: LCD illumination as in PDAs, LCD TV.
- > Communication: indicator and backlight in mobilephone.
- > Display: full color display video notice board.
- > Industry: white goods (eg: Oven, microwave, etc.).



Part Ordering Number	Color, $\lambda_{dom}$ (nm)		Viewing Angle°	Luminous Intensity @ IF = 20mA IV (mcd)	
	Chip #1	Chip #2		Chip #1	Chip #2
<b>DMHG-GJS-NP+LM-1</b>	Hyper Red,	Green,	<b>120</b>	<b>28.5 - 71.5</b>	<b>11.2 - 28.5</b>
• DMHG-GJS-NL	645nm	570nm		28.5 - 45.0	11.2 - 18.0
• DMHG-GJS-NM				28.5 - 45.0	18.0 - 28.5
• DMHG-GJS-PL				45.0 - 71.5	11.2 - 18.0
• DMHG-GJS-PM				45.0 - 71.5	18.0 - 28.5

**NOTE**

1. DMXX comes in a quantity of 2000 units per reel.
2. Luminous intensity is measured with an accuracy of  $\pm 11\%$ .
4. Half group binning for luminous intensity is also available upon request.

**Wavelength Grouping**

Color	Group	Wavelength distribution (nm)
Hyper Red	Full	640 - 650
Green	Full	564.5 - 567.5
	W	564.5 - 567.5
	X	567.5 - 570.5
	Y	570.5 - 573.5
	Z	573.5 - 576.5

Dominant wavelength is measured with an accuracy of  $\pm 1$  nm.

## Electrical Characteristics at Ta=25°C

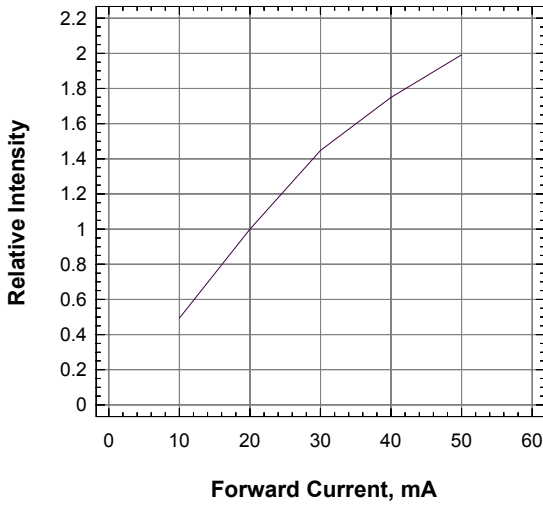
	Vf @ If = 20mA	
	Typ. (V)	Max. (V)
Hyper Red	1.90	2.50
Green	2.20	2.50

Forward voltage, Vf is measured with an accuracy of ± 0.1 V.

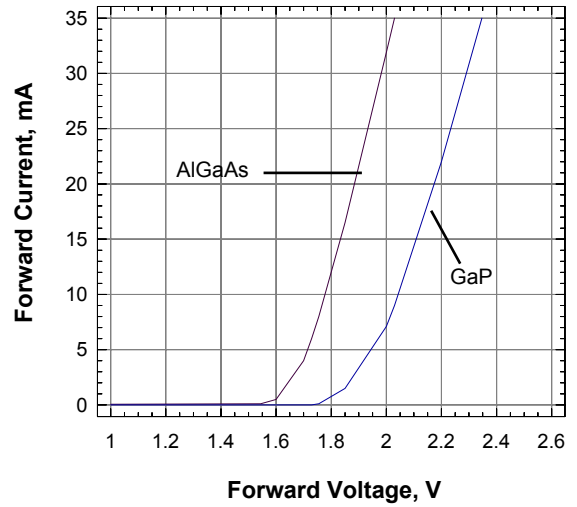
## Absolute Maximum Ratings

	Maximum Value	Unit
DC forward current	30	mA
Peak pulse current; (tp ≤ 10µs, Duty cycle = 0.005)	1000	mA
Reverse voltage	5	V
ESD Threshold (HBM)	2	kV
LED junction temperature	125	°C
Operating temperature	-55 ... +100	°C
Storage temperature	-55 ... +100	°C

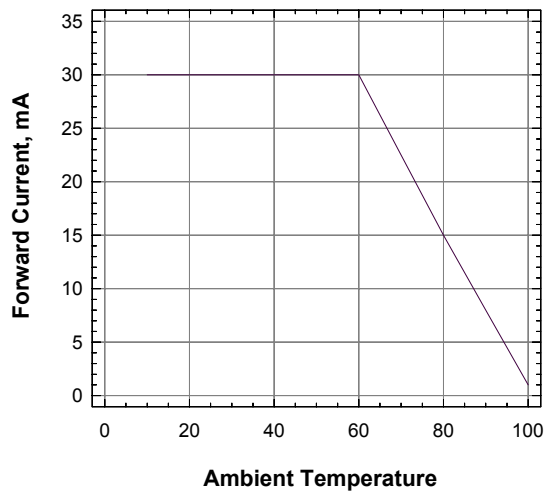
**Relative Luminous Intensity Vs Forward Current**



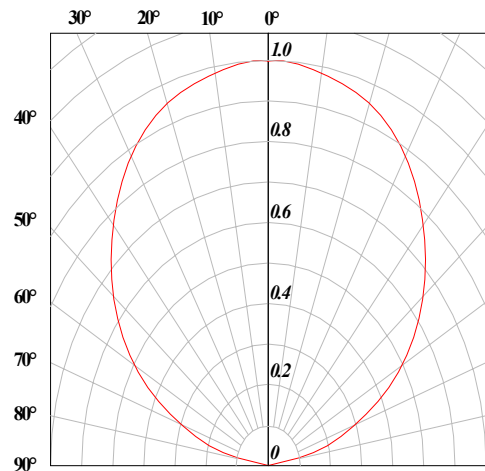
**Forward Current Vs Forward Voltage**



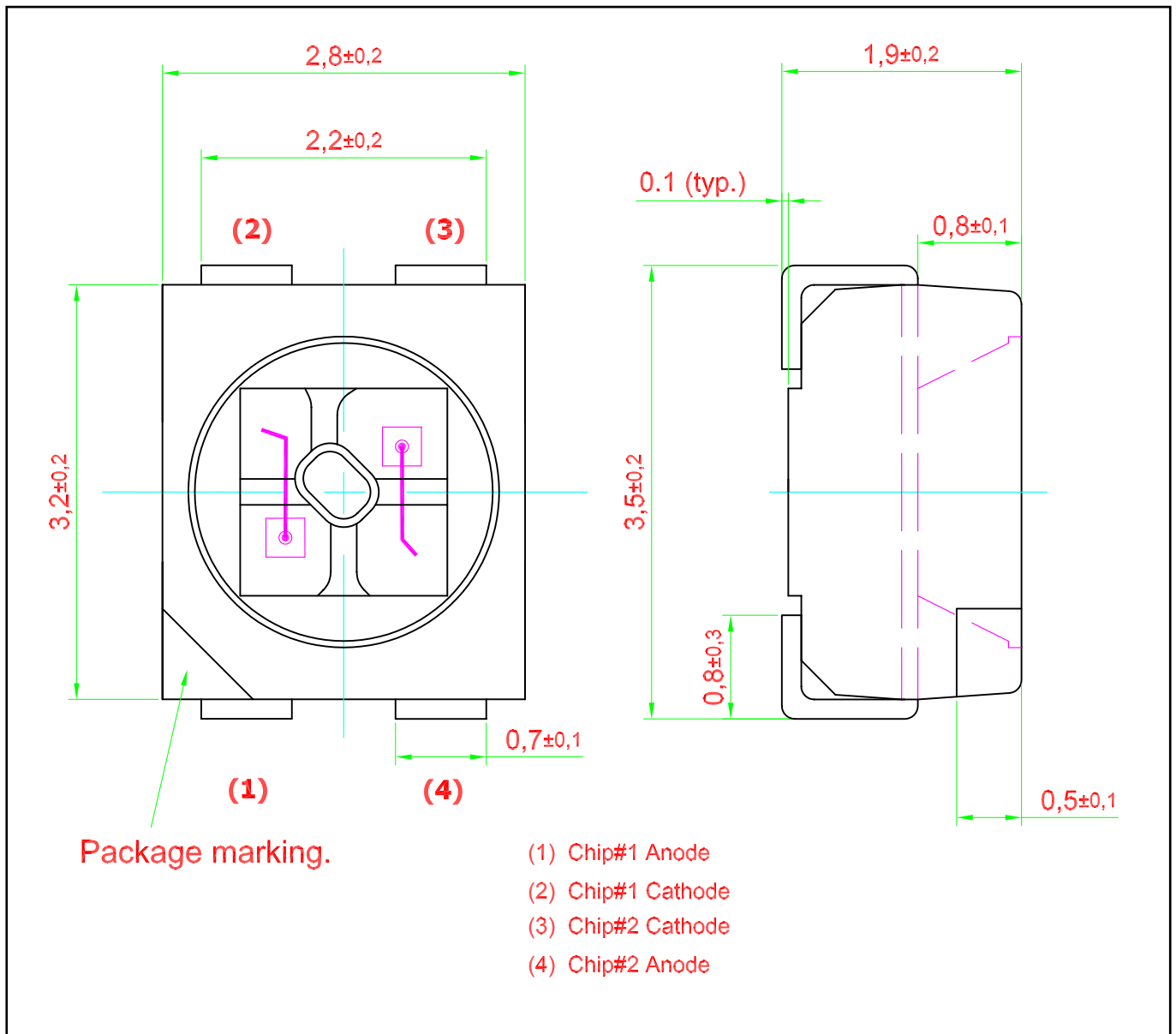
**Maximum Current Vs Temperature**



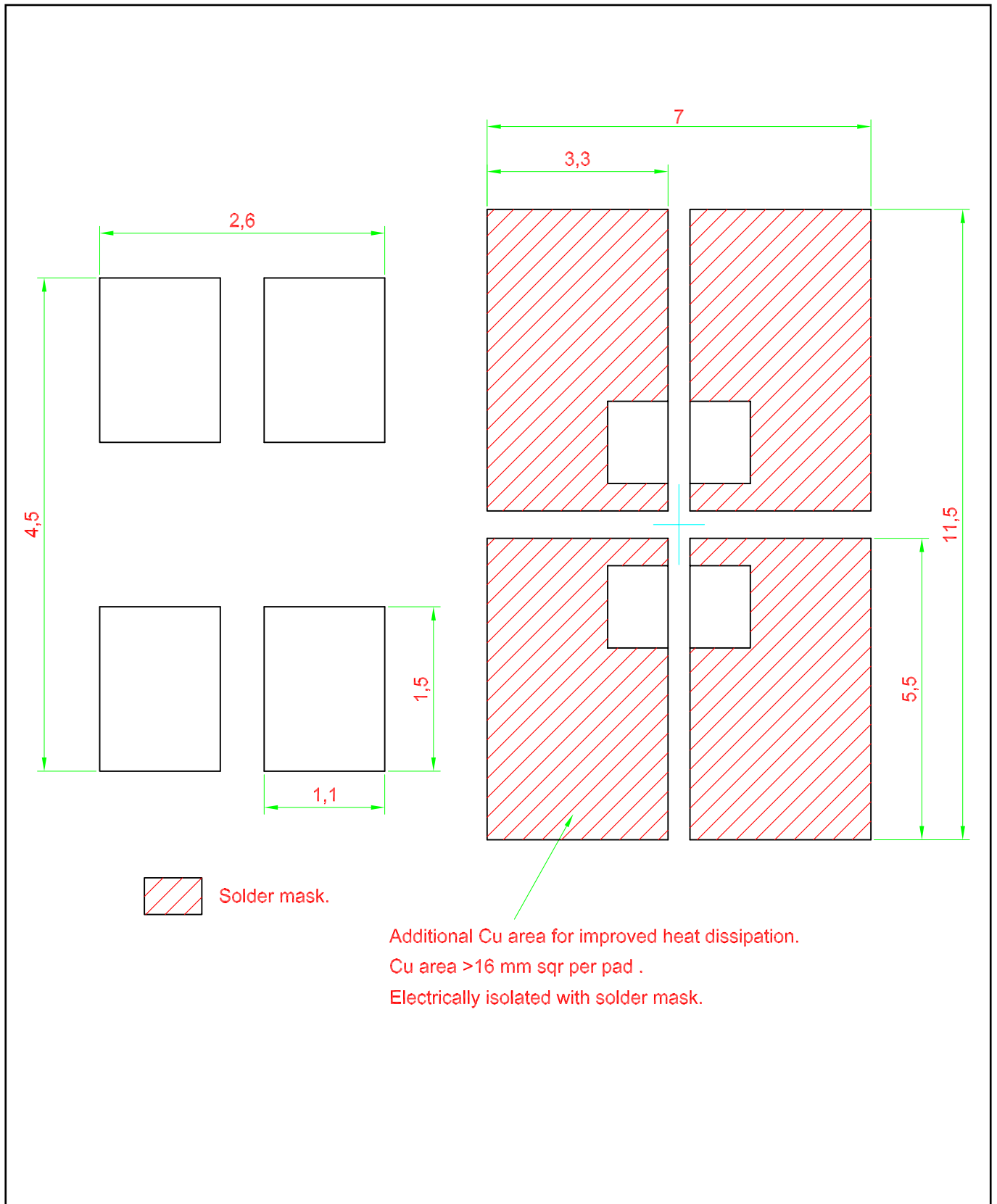
**Radiation Pattern**



**Multi DomiLED™ • DMHG-GJ : Bi-Color Package Outlines**

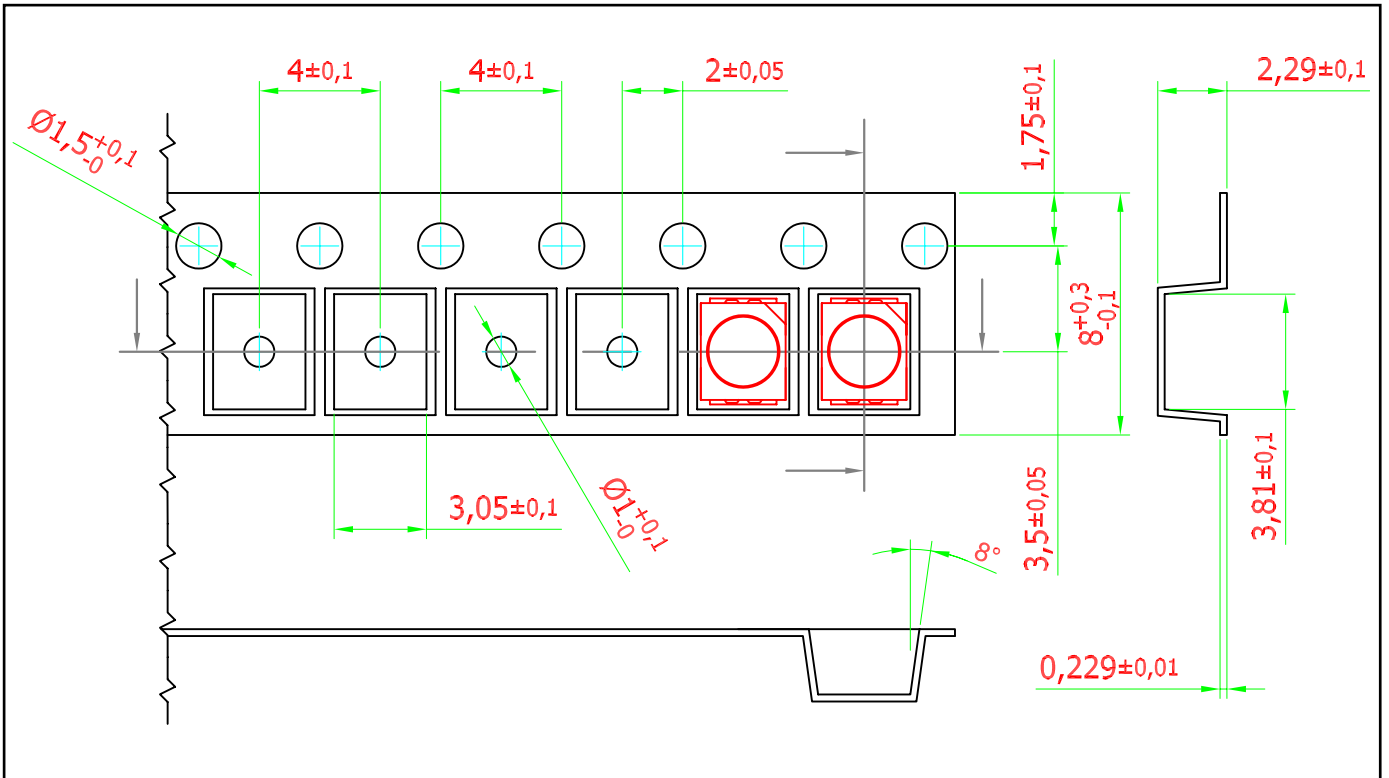


**Recommended Solder Pad**



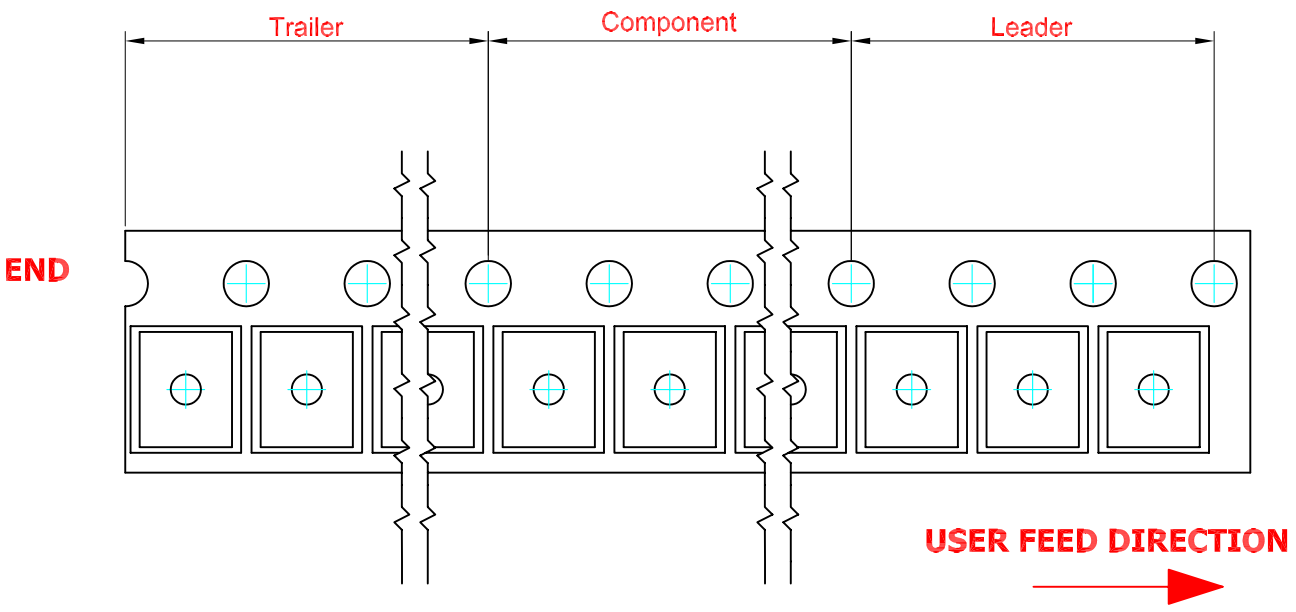
**Taping and orientation**

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

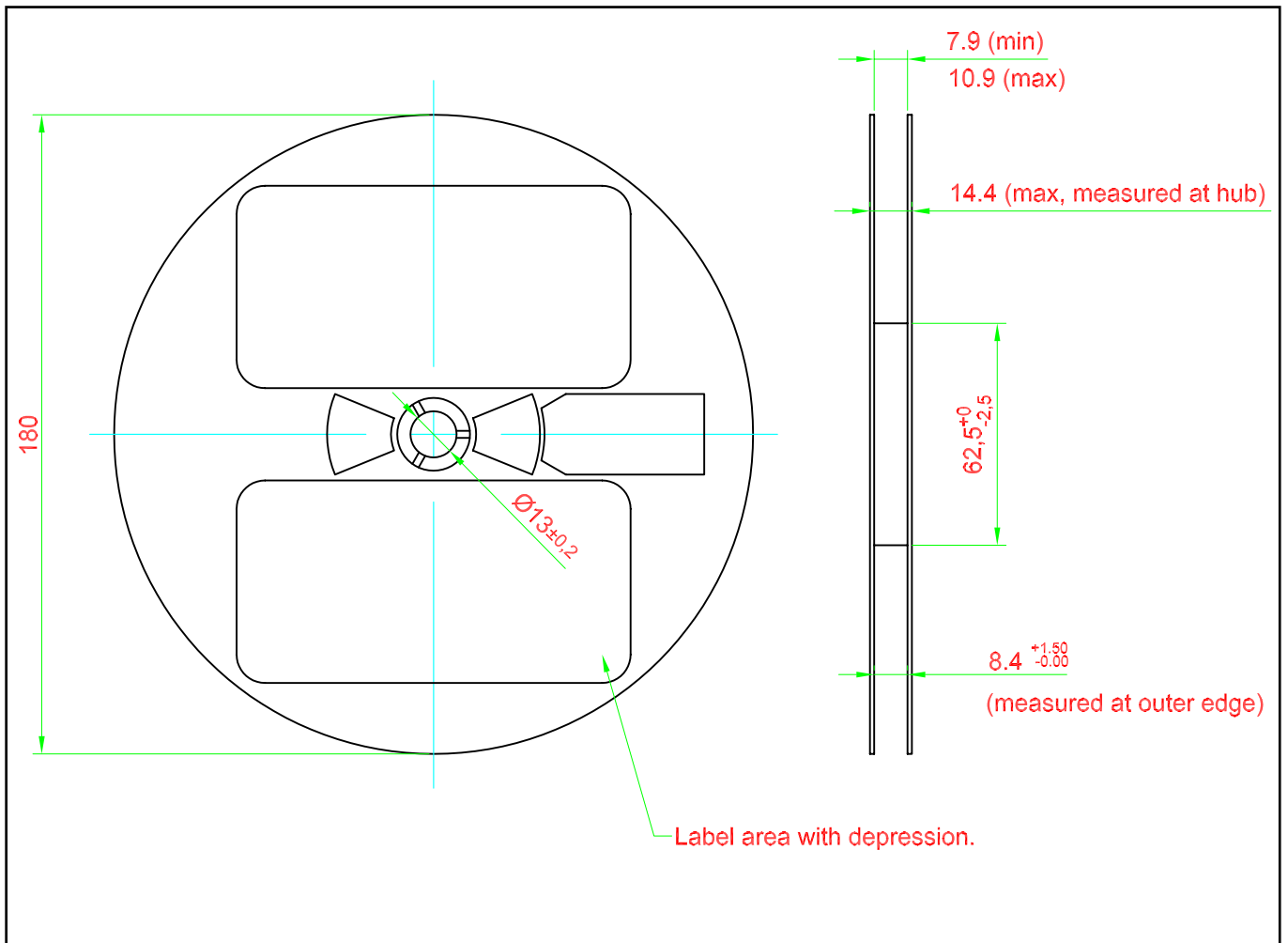


200 mm min. for  $\varnothing 180$  reel.  
200 mm min. for  $\varnothing 330$  reel.

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

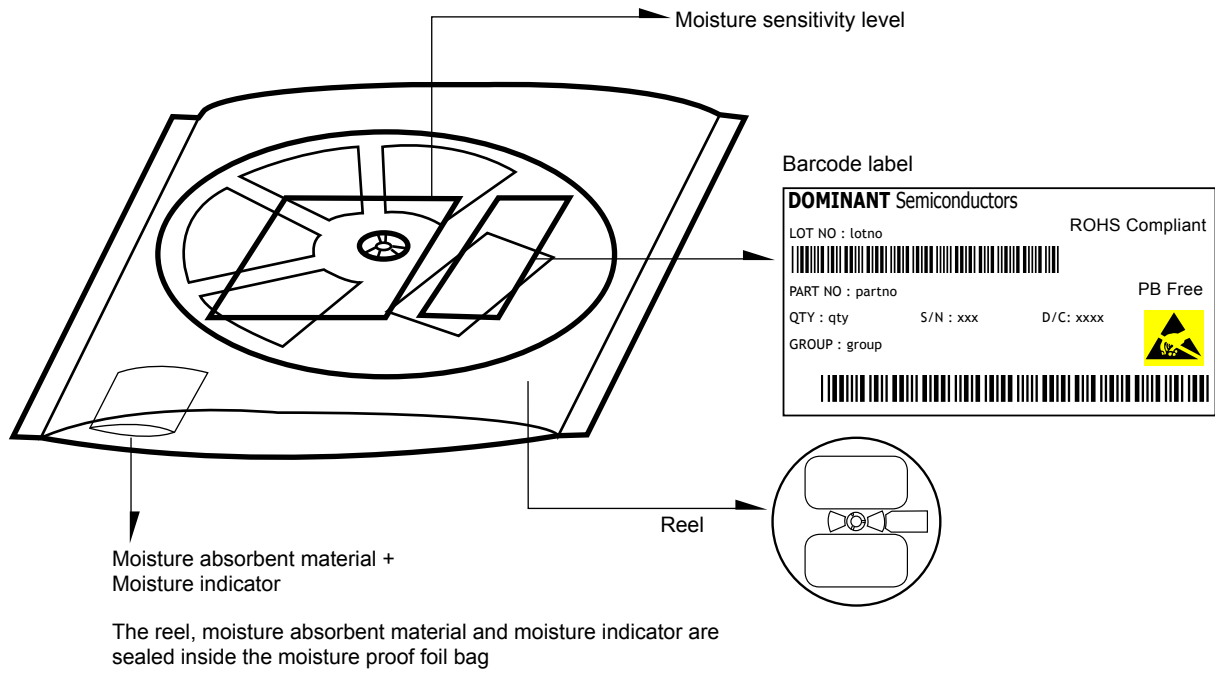


**Packaging Specification**

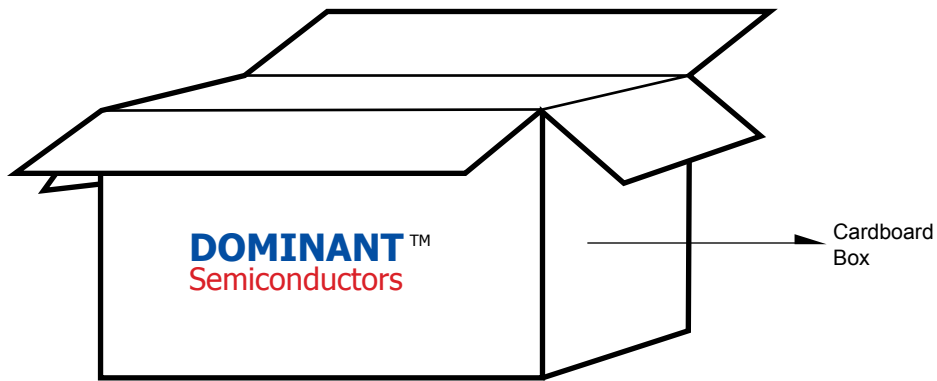




**Packaging Specification**



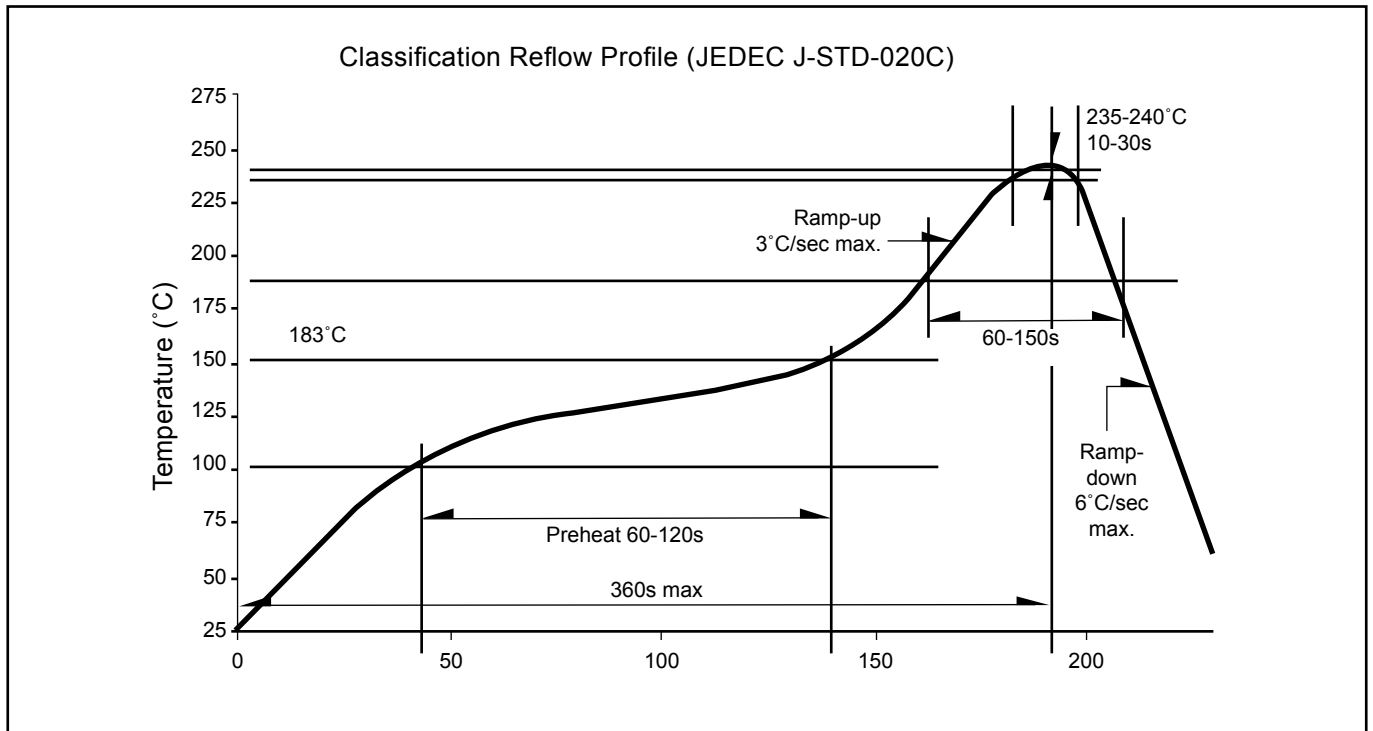
	Average 1pc DomiLED/Multi DomiLED	1 completed bag (2000pcs)
Weight (gram)	0.034	190 ± 10



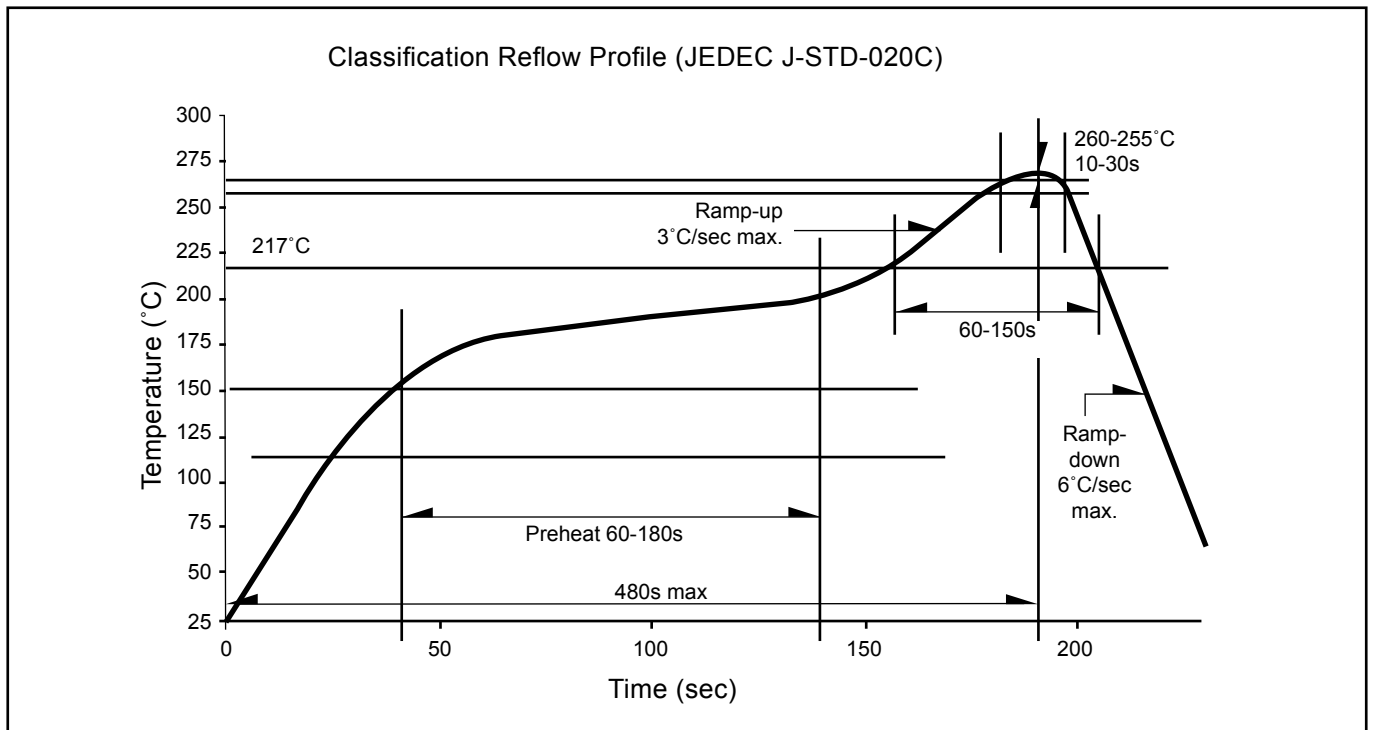
**For Multi DomiLED™**

Cardboard Box Size	Dimensions (mm)	Empty Box Weight (kg)	Reel / Box	Quantity / Box (pcs)
Small	300 x 250 x 250	0.58	15 reels MAX	30,000 MAX
Large	416 x 516 x 476	1.74	55 reels MAX	110,000 MAX

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



**Recommended Pb-free Soldering Profile**



**Revision History**

Page	Subjects	Date of Modification
-	New Format	29 Sept 2005

**NOTE**

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