

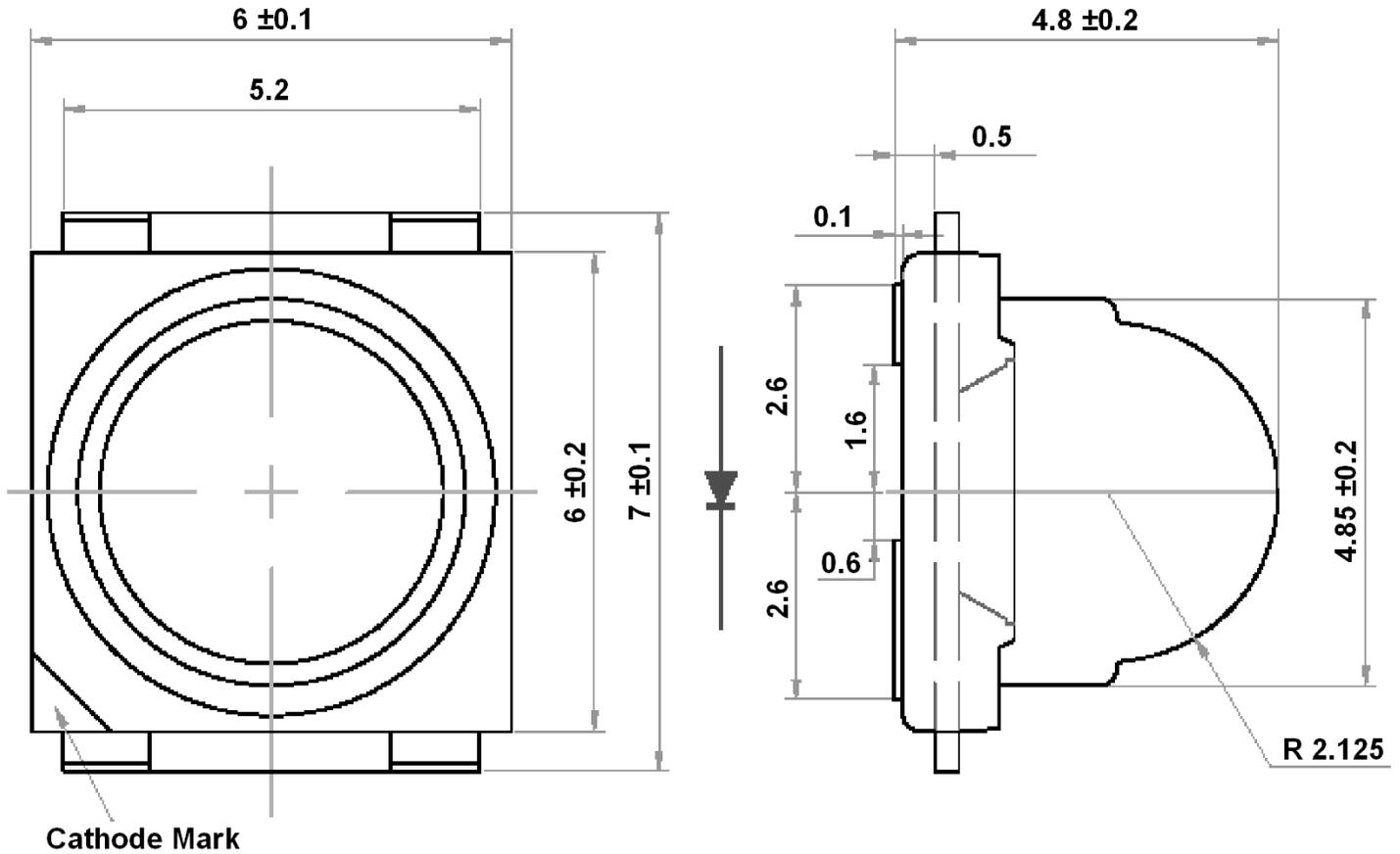


American Opto Plus
L-995PUWC-40D
 6 x 6 x 4.8mm ULTRA BRIGHT SMD

- ❖ High current drive device: 350mA
- ❖ High flux output
- ❖ Compatible to IR-reflow soldering
- ❖ 40° Viewing angle, Domed lens

PACKAGE DIMENSIONS

PRELIMINARY SPECIFICATION



Notes: Unit = mm, Tolerance = ± 0.25 mm unless otherwise specified

Part Number	Chip	Viewing Angle	Total Flux lm (typ) I _F = 350mA	Luminous Intensity mcd (typ) I _F = 350mA
L995PUWC-40D	InGaN	40°	24	18000 - 22400



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MATERIAL

	Material
Lead-frame	Cu Alloy With Ag Plating.
Package	High Temperature Resistant Plastic, PPA
Encapsulant	Epoxy Resin
Soldering Leads	Sn-Sn Plating

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Max Rating	Unit
DC Forward Current	I _F	350	mA
Peak Pulse Current		1000	mA
Reverse Voltage	V _R	5.0	V
LED Junction Temperature		120	°C
Operating Temperature Range	T _{OPR}	-40 ~ +100	°C
Storage Temperature Range	T _{STG}	-40 ~ +100	°C

BIN INFORMATION

Symbol	I _v		V _F		V _r	
Parameter	Luminous Intensity		Forward Voltage		Reverse Voltage	
Condition	I _F = 350mA		I _F = 350mA		I _r = 10uA	
Unit	mcd		V		V	
Binning	Grade	Range	Grade	Range	Grade	Range
	AD	14000 - 18000	Typ	3.6 - 4.0	Min	5.0
	AE	18000 - 22400				

Notes:

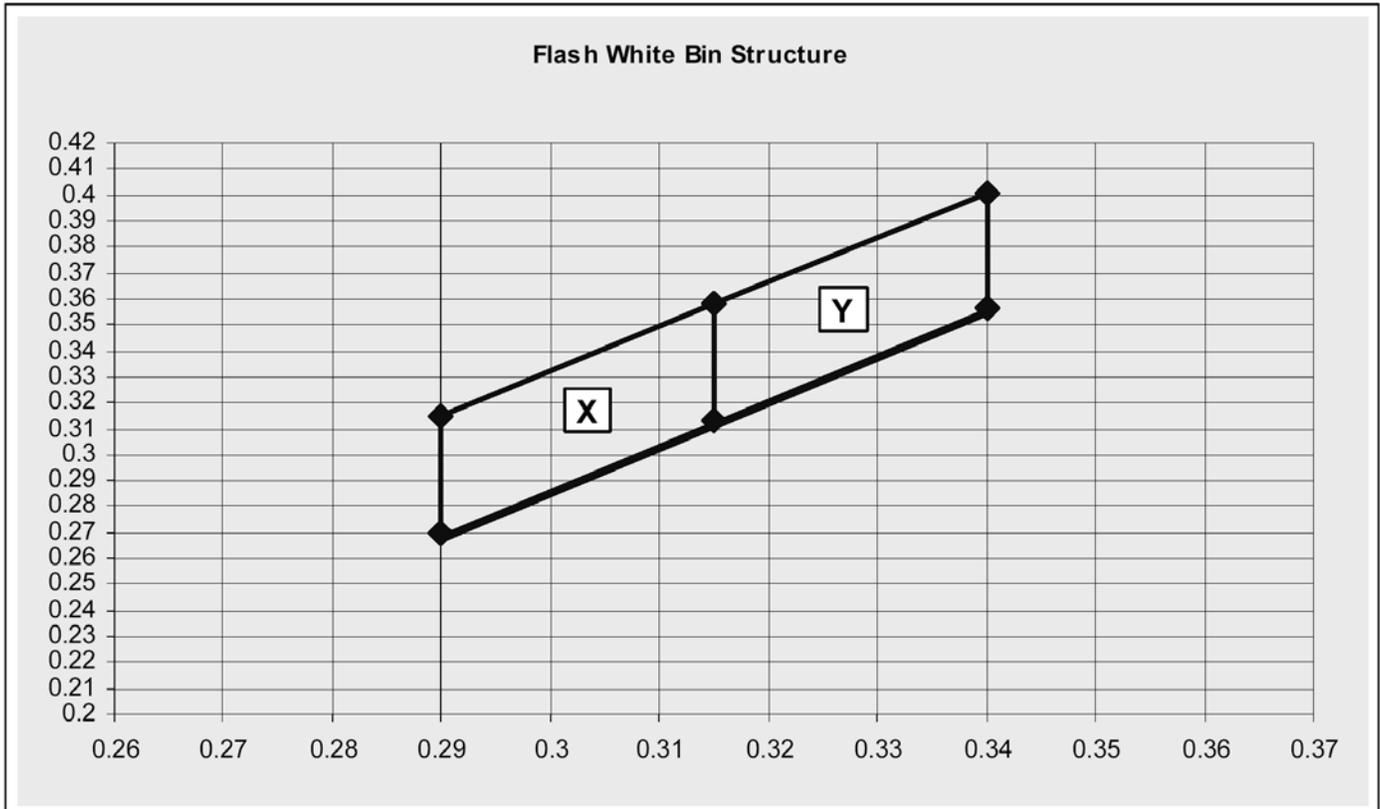
- 1) Luminous intensity is measured with an accuracy of ±11%
- 2) Wavelength binning is carried for all units as per the wavelength-binning table. Only one wavelength group is allowed for each reel.
- 3) This product is Pb free.



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Color Bin



BIN		1	2	3	4
X	Cx	0.290	0.315	0.315	0.290
	Cy	0.270	0.313	0.358	0.315
Y	Cx	0.315	0.340	0.340	0.315
	Cy	0.313	0.356	0.401	0.358

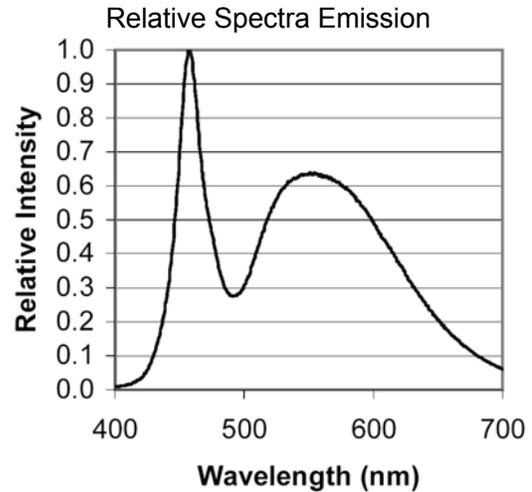
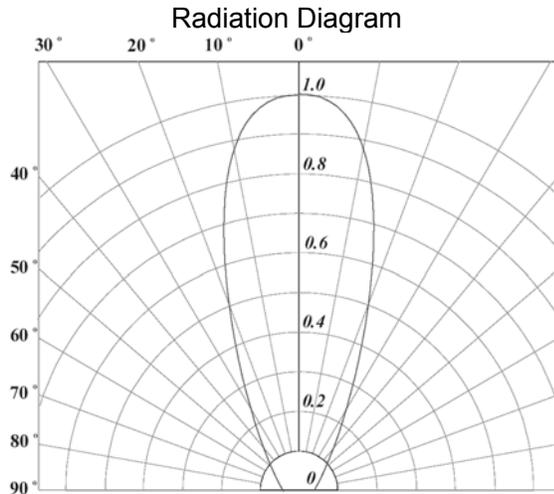


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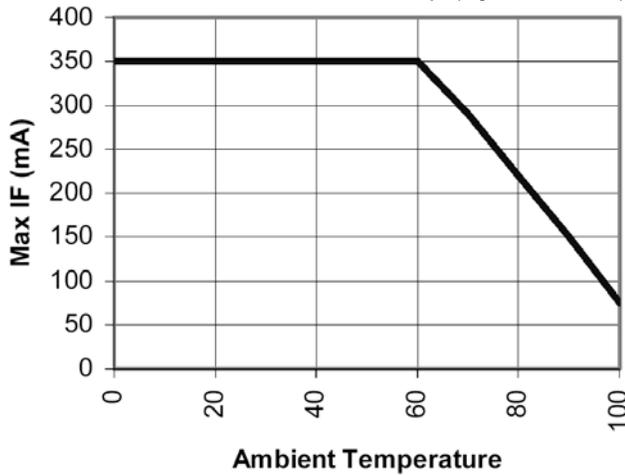
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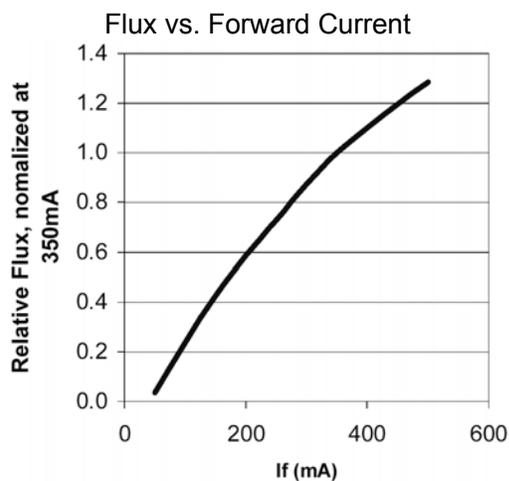
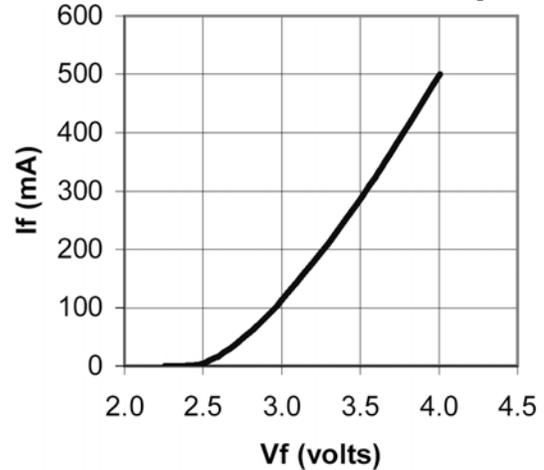
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



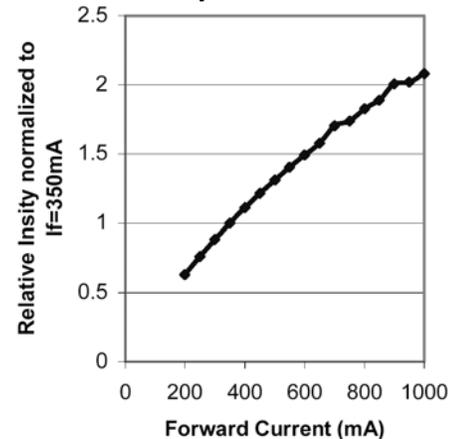
Forward Current vs. Ambient Temp ($R_{ja} = 40K/W$)



Forward Current vs. Forward Voltage



Relative Intensity vs. Forward Current





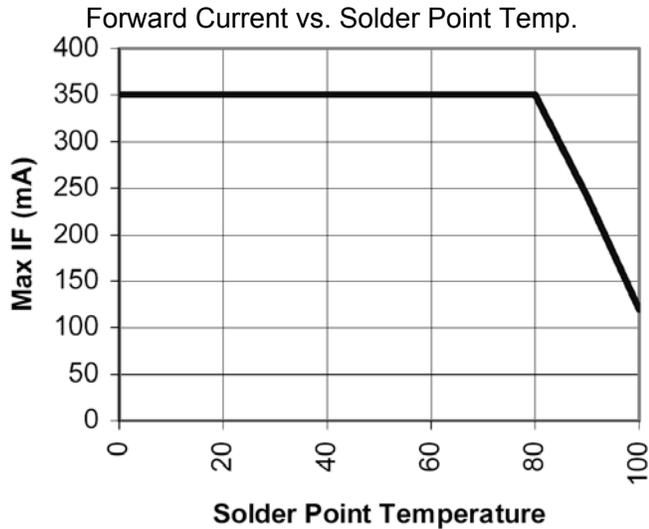
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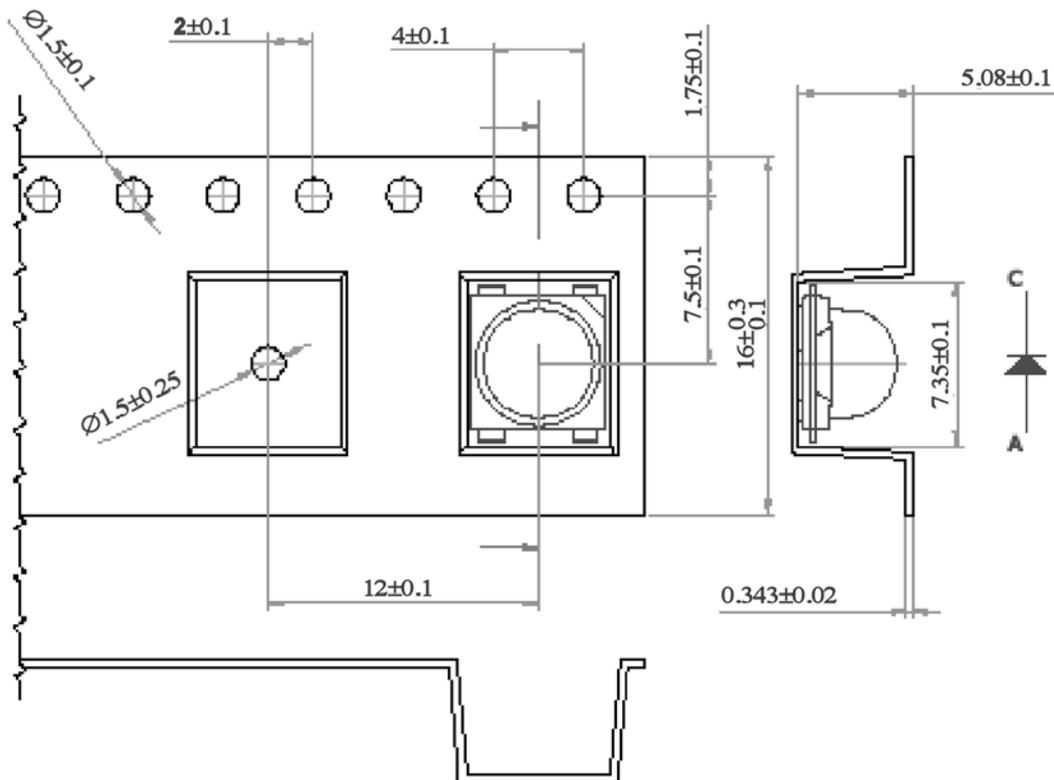
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TAPING AND ORIENTATION

Reels come in quantity of 1000 units. Reel diameters are 330mm





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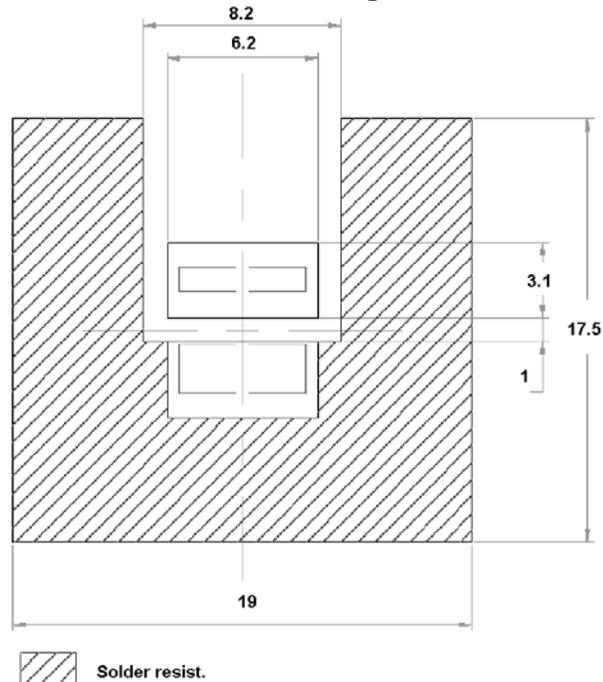
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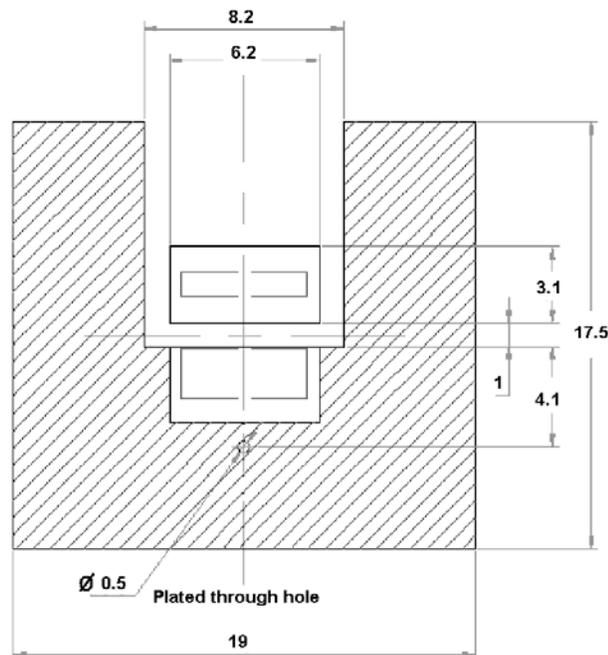
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Solder Pad Design:

Note: Unit to unit pitching must not be less than 25mm. Metal core circuit board (MCPCB) is highly recommended for high density applications. Please consult sales and marketing for additional information.



Recommended Solder Pad Design For Better Heat Dissipation:



Note: Double-sided, full Cu plate 19 x 17.5 mm on reverse side.



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RECOMMENDED IR-REFLOW SOLDERING PROFILE

Classification Reflow Profile (JEDEC J-STD-020B)

