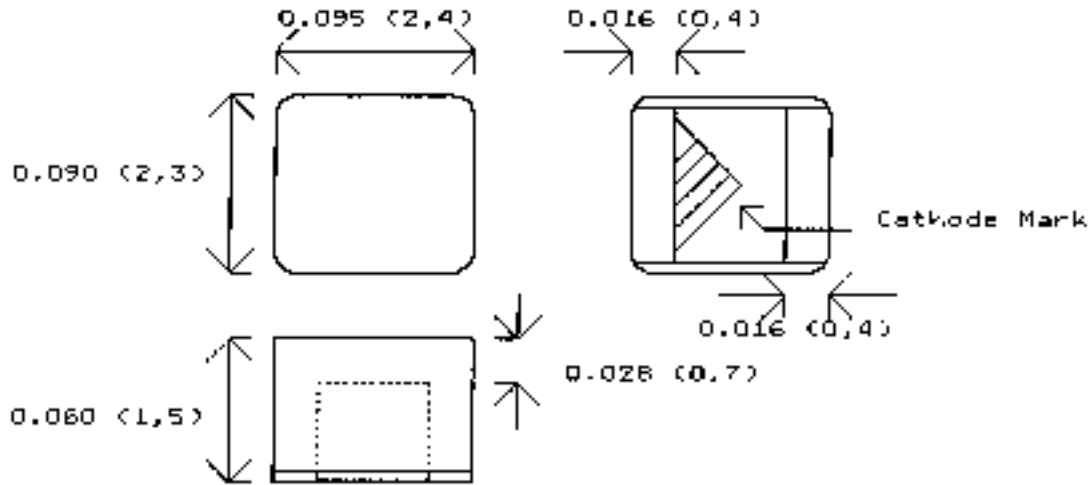




NVIS Compatible 0805 Package Surface Mount LED

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Dimensions are in inches (mm). Tolerance: +/- 0.005 (0,2). Not drawn to scale.

MAIN FEATURES

- o Display conformance for chromaticity and NVIS Radiance per MIL-STD-3009
- o Compact package · low current and power consumption · wide viewing angle
- o LCD's, panels, switches, pushbuttons and other backlit displays

Part Number	NVIS Color	Filter Type	u'	v'	r	NVIS Radiance
L-65196-A0805-003	Green A	65196	0.088	0.543	0.037	(NR)a <1.7e-10 @ 0.1 fl
L-65197-B0805-003	Green B	65197	0.131	0.623	0.057	(NR)a <1.7e-10 @ 0.1 fl
L-65648-W0805-003	White	65648	0.190	0.490	0.040	(NR)a <1.0e-09 @ 0.1 fl

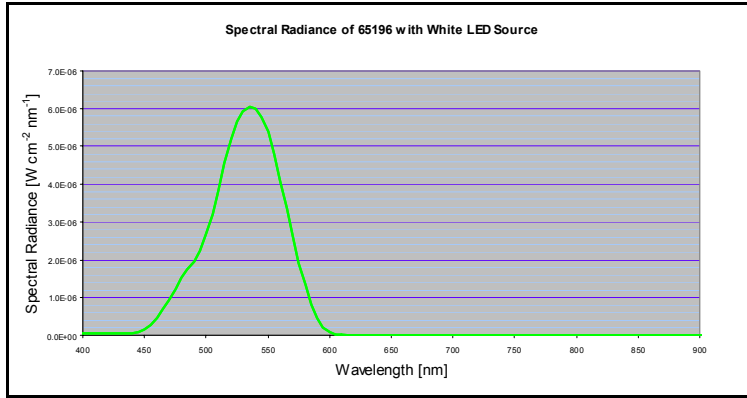
Initial Electrical/Optical Characteristics at 25°C ambient (No Filter)

Part No.	Chip		Lens Color	Wave Length (nm)	Absolute Maximum Ratings			Electro-Optical Characteristics					View Angle (deg)		
	Raw Material	Emitted Color			nm	Pd mW	If mA	If (Peak)	Vf(V)			If		Iv (mcd)	
								Min.	Typ.	Max.	(Rec)	Min.	Typ.		
L171LWC	GaN	White	Water Clear	x - 0.31 y - 0.32	--		30	100		3.5	4.0	20	120	220	120

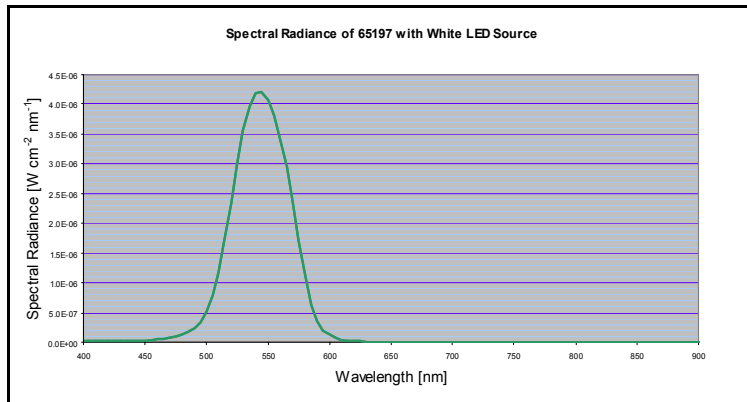


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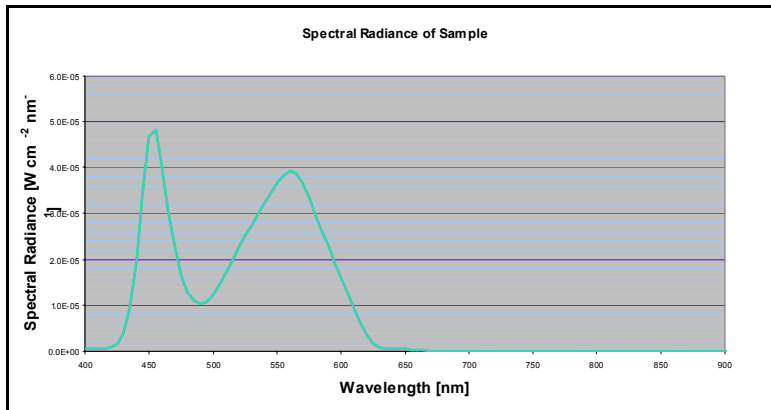
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Spectral plot 65196



Spectral plot of 65197

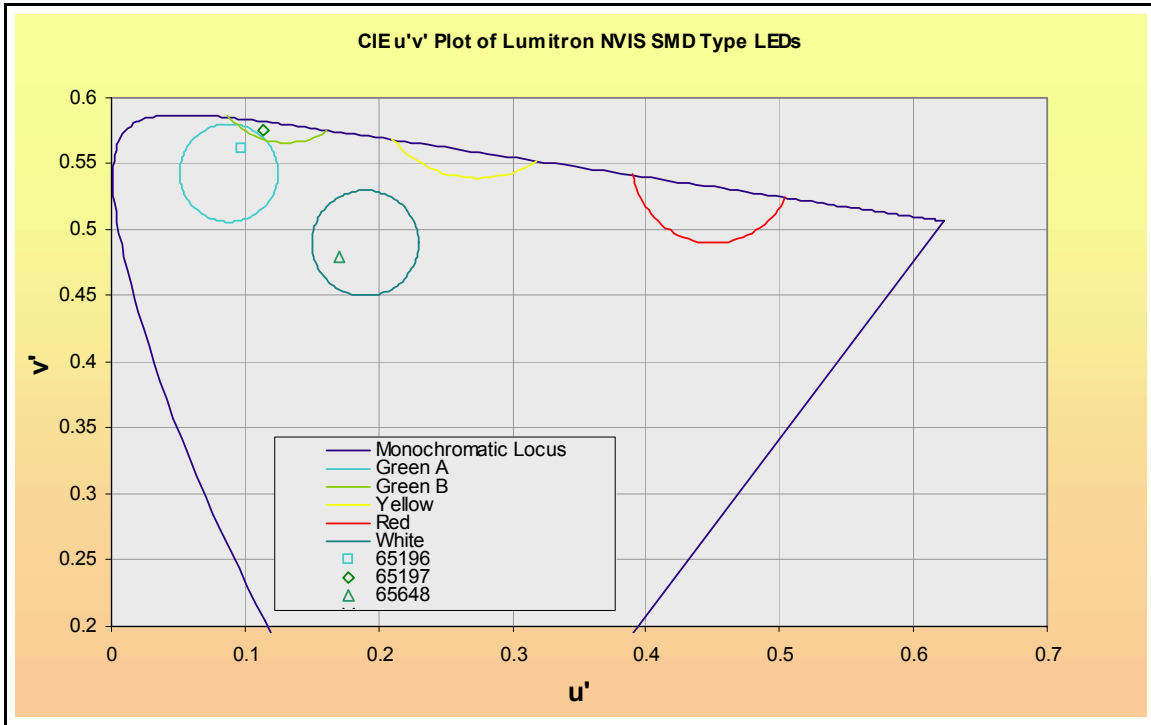


Spectral plot of 65648



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Chromaticity Plot

Application notes:

- Check NVIS radiance after soldering is completed. Additional potting may be required in the event of light leakage. Please contact Lumitron for opaque potting material recommendations.
- Maximum soldering temperature range recommended for Lumitron filter/SMD assemblies is 260°C.
- Suitability of Lumitron filter/SMD assemblies for various soldering methods and cleaning processes must be determined by user.
- Compatible with L171LWC solder pad layout design (see page 4).
- For complete technical specifications for L171LWC please contact Lumitron.

Absolute Maximum Ratings at 25°C Ambient

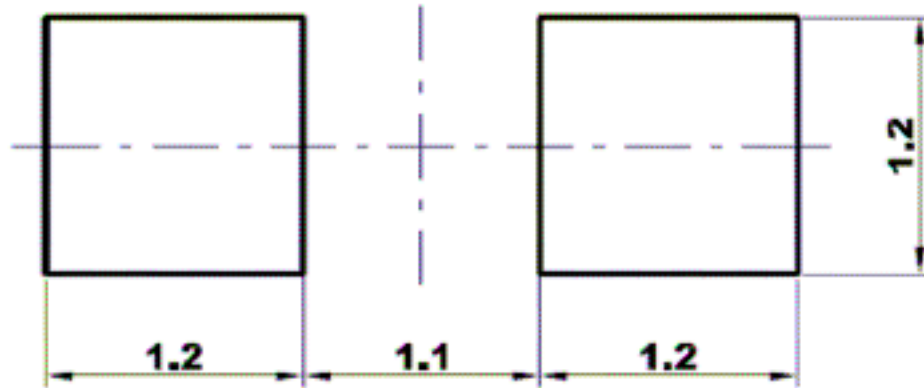
Reverse Voltage	5 Volts
Reverse Current (Vr=5V)	10µA
Operating Temperature Range	-30° C to + 85° C
Storage Temperature Range -	-40° C to + 100° C



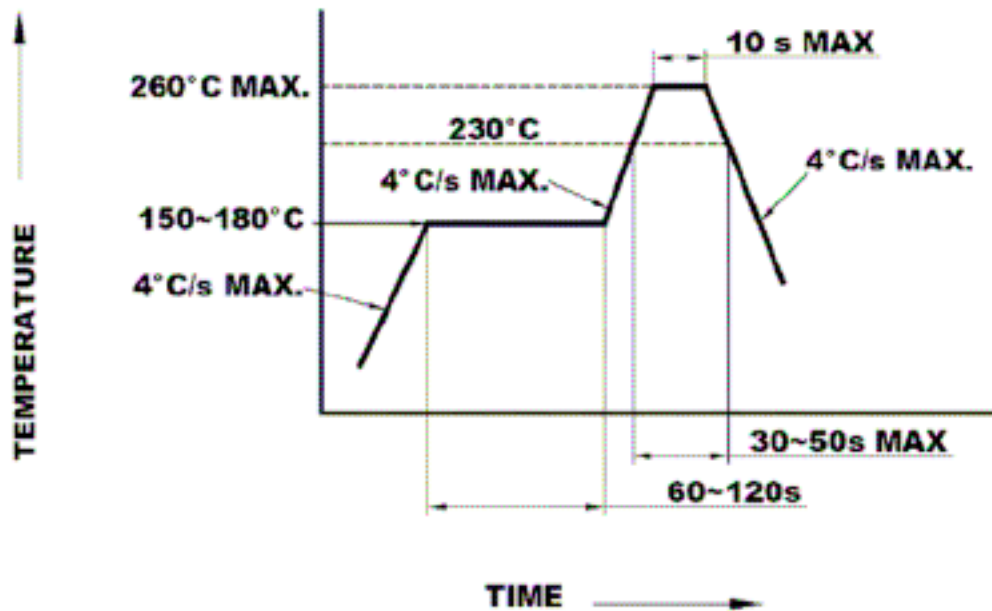
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Reflow Soldering Pattern (Unit = mm)



SMD Reflow Soldering Instructions



SMT Reflow soldering 260°C one cycle