

APPROVAL SHEET

Company Name _____

Full Sun Part Number **L5-G0030-6500** _____

Quantity _____

Shipment Date _____

Approved by Supplier _____

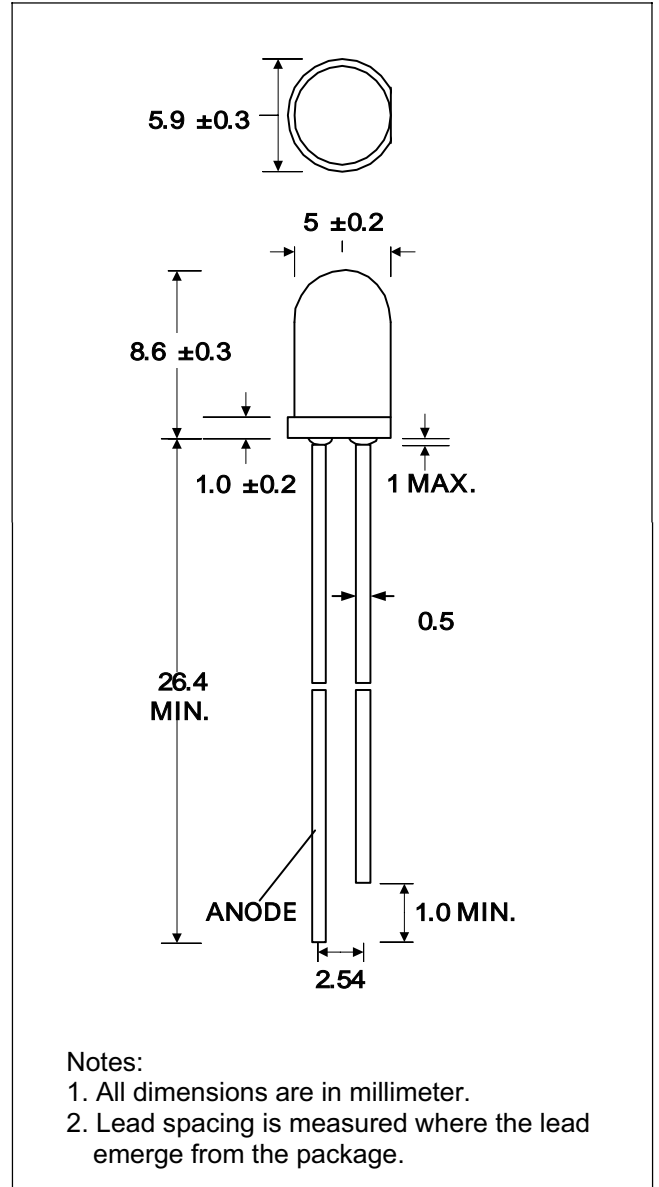
Approved by Customer _____

DISCRIPTION

- Super bright LED Lamp
- Round type
- T1-3/4 (5mm) diameter
- Lens color: Water Clear
- With Flange
- Solder leads without stand-off
- Package: bulk

FEATURES

- Emitted color: Super Green
- High Luminous intensity
- Technology: InGaN
- Peak wavelength $\lambda_p = 502\text{nm}$
- Viewing angle: 30 °
- UV resistant epoxy



SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
InGaN	Super Green	Water Clear	30 °

ABSOLUTE MAXIMUM RATINGS

(Ta=25)

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P _D	120	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I _{PF}	100	mA
Continuous Forward Current	I _{AF}	30	mA
Reverse Voltage	V _R	5.0	V
Operating Temperature Range	T _{OPR}	-20~+70	
Storage Temperature Range	T _{STG}	-40~+85	

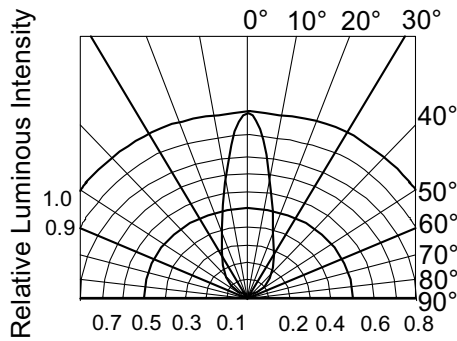
Solder temperature 1.6 mm from body for 3 seconds at 260

OPTICAL-ELECTRICAL CHARACTERISTICS

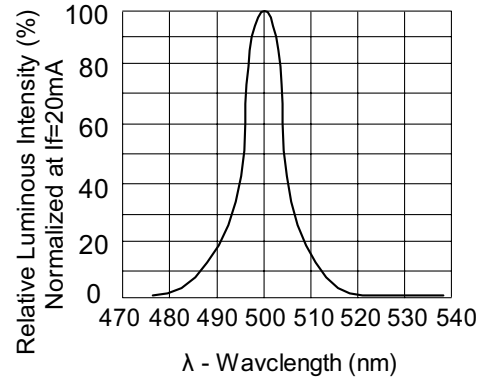
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I _V	I _F = 20mA	3900	6500		mcd
Forward Voltage	V _F	I _F = 20mA		3.2	3.6	V
Reverse Current	I _R	V _R = 5V			10	uA
Viewing Angle	2θ _{1/2}	I _F = 20mA		30		deg.
Peak Wavelength	P	I _F = 20mA		502		nm
Dominant Wavelength	D	I _F = 20mA	495	500	505	nm
Spectrum Radiation Bandwidth		I _F = 20mA		30		nm

*Tolerance of Viewing Angle: -10 / +5 deg.

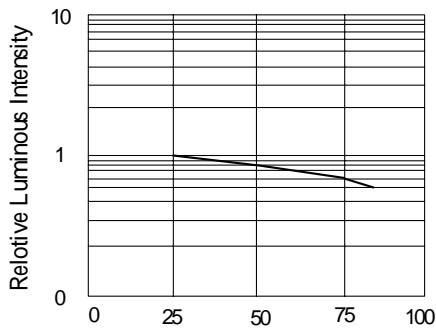
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



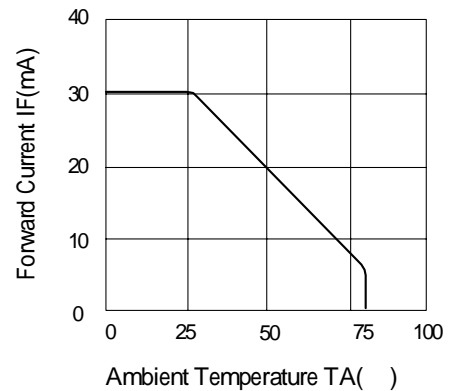
RADIATION DIAGRAM



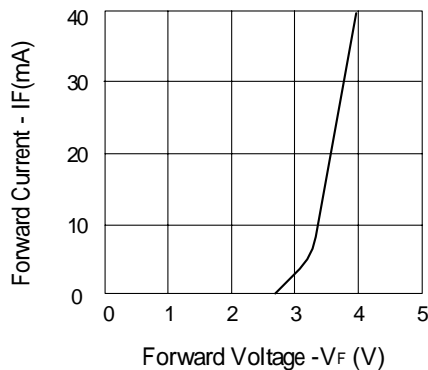
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



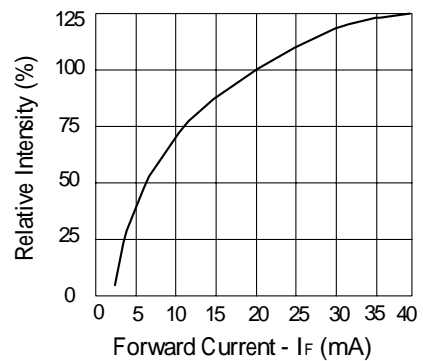
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



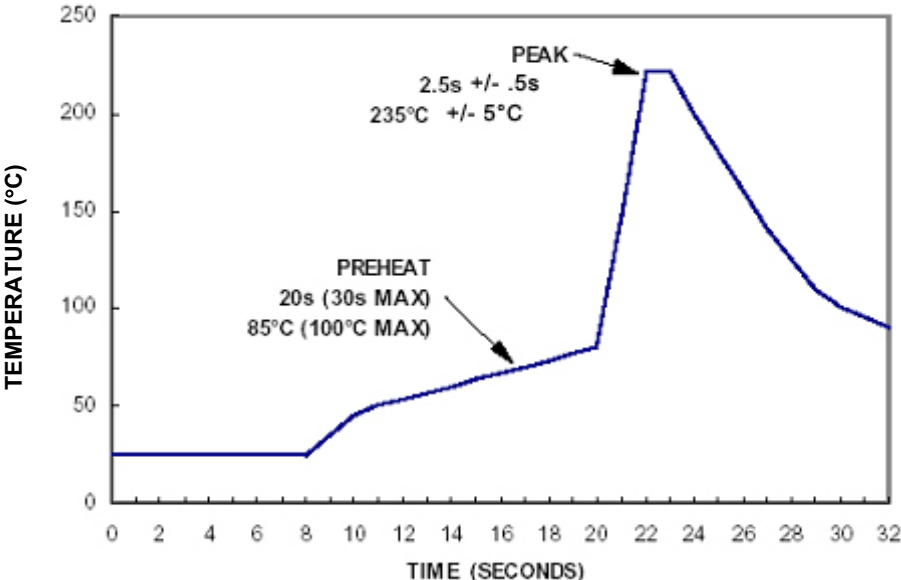
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

Recommended Soldering Conditions

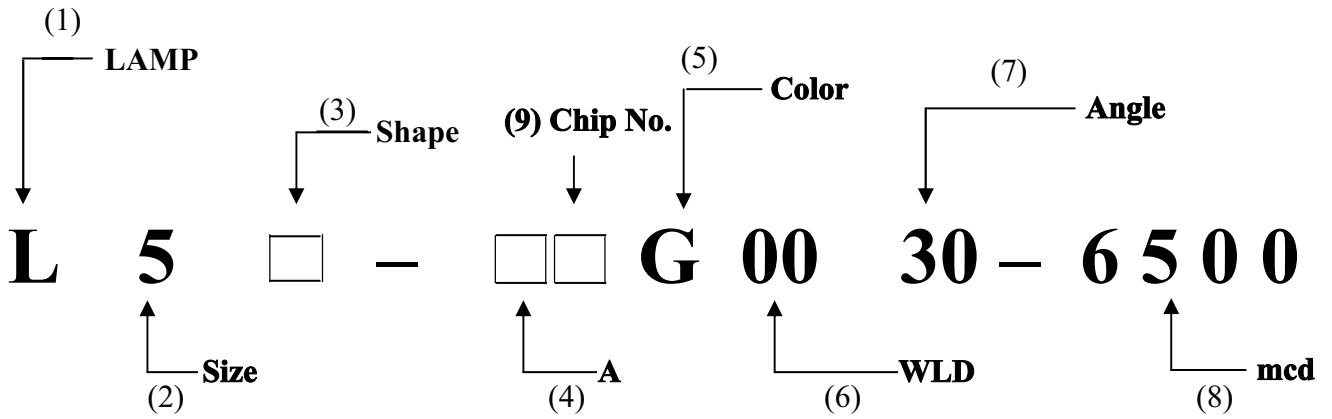
The recommended soldering conditions are listed in Table 1. A sample solder profile taken on the LED lead on the bottom-side of the PCB is shown in Figure 1. Both the recommended



Preheat Temperature	85 +/- 15°C
Preheat Time*	20 sec (Max 30 sec)
Peak Profile Temperatures	235 +/- 5°C
Soak Time above 200°C	2.5s +/- .5s

*Note: All top preheat stages are to be turned off so that the lamp body is not directly exposed to the heat source.

Item number code rule



Specification table

VF (v)	λ D(nm)	IV(mcd)
2.9-3.0	496-499 499-502 502-505	3900~5500
3.0-3.1		5500~7600
3.1-3.2		7600~10500
3.2-3.3		10500~15000
3.3-3.4		