



Specification For Approval

Customer: _____

Description: **LED-LAMP**

Part number: **RL-LB2012 Series**

Date: **2007-09-26**

Approved By:

--

Prepared By:

Approval	Check	Design	Sales

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

www.exceedledcn.com



Light-emitting diode



- 500MM*11MM SMD LIGHT RIBBON (24LEDS)
- PRINTED CIRCUIT BOARD THICKNESS:0.2MM
- LED VIEW ANGLE:120 DEGREE
- PACKAGE:8PCS/REEL

■ Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	160	mA
Peak Forward Current*	I _{FP}	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	1.92	W
Electrostatic discharge	E _{SD}	2000	V
Operation Temperature	T _{opr}	-25~+80	°C
Storage Temperature	T _{stg}	-40~+80	°C
Lead Soldering Temperature*	T _{sol}	Max. 230°C for 5sec Max.	

*I_{FP} Conditions: Pulse Width ≤ 10msec duty ≤ 1/10

*T_{sol} Conditions: 3mm from the base of the epoxy bulb

■ Typical Optical/ Electrical Characteristics (YELLOW)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =200mA		12		V
Luminous Flux	Φ _V	I _F =200mA		26		lm
Peak Wavelength	λ _P	I _F =200mA	587	591		nm
Recommend Forward Current	I _F (rec)	--	--	--	160	mA

■ Typical Optical/ Electrical Characteristics (GREEN)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =200mA		12		V
Luminous Flux	Φ _V	I _F =200mA		45		lm
Peak Wavelength	λ _P	I _F =200mA	515	519		nm
Recommend Forward Current	I _F (rec)	--	--	--	160	mA



Light-emitting diode



■ Typical Optical/ Electrical Characteristics (ULTRA RED)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =160mA		12		V
Luminous Flux	Φ _V	I _F =160mA		45		lm
Peak Wavelength	λ _P	I _F =160mA	620	-	625	nm
Recommend Forward Current	I _F (rec)	--	--	--	160	mA

■ Typical Optical/ Electrical Characteristics (WHITE)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =160mA		12		V
Luminous Flux	Φ _V	I _F =160mA		55		lm
Peak Wavelength	λ _P	I _F =160mA		-		nm
Recommend Forward Current	I _F (rec)	--	--	--	160	mA

■ Typical Optical/ Electrical Characteristics (BLUE)

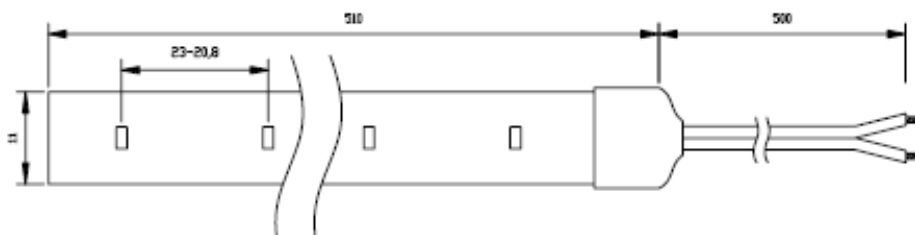
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =160mA		12		V
Luminous Flux	Φ _V	I _F =160mA		18		lm
Peak Wavelength	λ _P	I _F =160mA	465	\	475	nm
Recommend Forward Current	I _F (rec)	--	--	--	160	mA

Notes:

1. Absolute maximum ratings Ta=25°C.
2. Tolerance of measurement of forward voltage ±0.1V.
3. Tolerance of measurement of peak Wavelength ±2.0nm.
4. Tolerance of measurement of luminous intensity ±15%.



Part Number: RL-LB2012 SERIES



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.

Burr around bottom of epoxy may be 0.5mm max..