



EVERSTAR

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DATA SHEET

PART NO. : ESS-5050RGBC-T3

REV : A / 0

Producer : 张帆

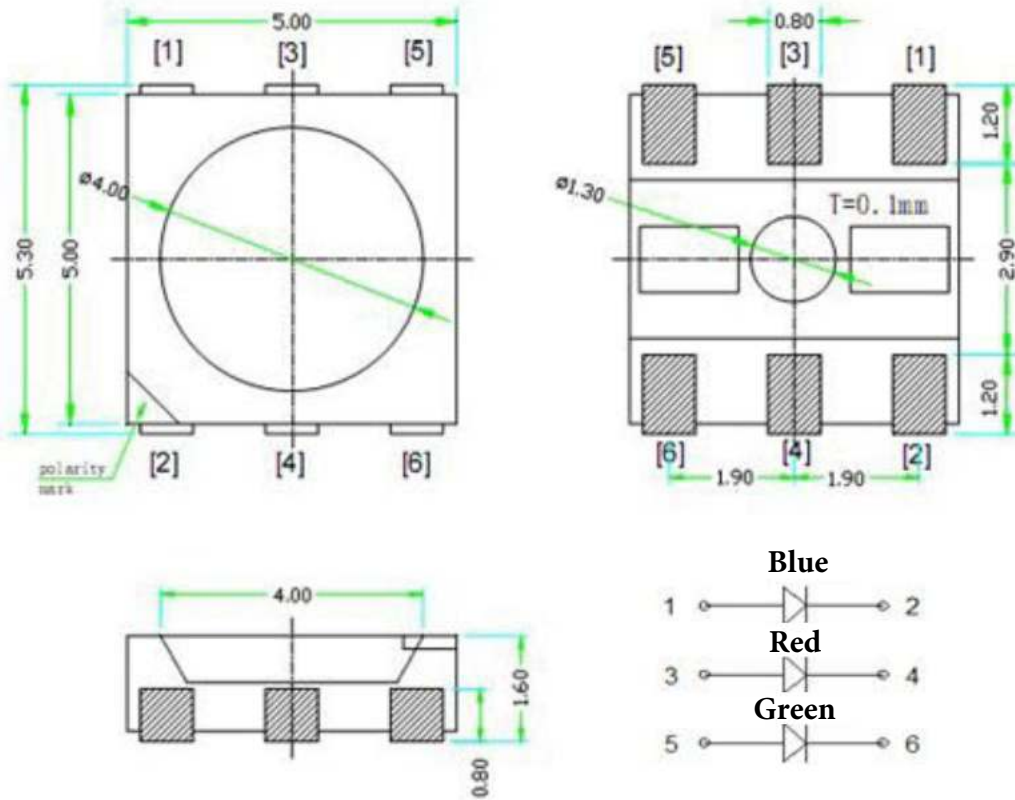
Auditor : 沈云

Approver : 姜良

CUSTOMER'S APPROVAL : _____

DCC : _____

Package Dimensions



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

Applications

1. Indoor displays (e.g. graphic displays)
2. Backlighting (LCD, switches, keys, displays, illuminated advertising, general lighting)
3. RGB-PLCC
4. Toys



5050 PLCC LED

ESS-5050RGBC-T3

REV:A / 0

Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating		Unit
		Red	Green/Blue	
Power Dissipation	P _D	80	100	mW
Forward Current(DC)	I _F	30	25	mA
Peak Forward Current*	I _{FP}	100	80	mA
Operation Temperature	T _{opr}	-40~ +95		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C

*Pulse width ≤ 0.1msec duty ≤ 1/10

Typical Electrical & Optical Characteristics (Ta = 25°C)

Color	Codition	Dominant Wavelength (nm)		Forward Voltage (v)		Luminous Intensity (mcd)		Reverse Current (μ A)	50% Power Angle
		Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.
Red	IF=20mA	615	620	1.8	2.4	650	750	10	120
Green	IF=20mA	520	525	3.0	3.6	1400	1700	10	
Blue	IF=20mA	460	469	3.0	3.6	350	400	10	

Notes

- Dominant Wavelength Rank:R:5nm/bin G/B:3nm/bin
Luminous Intensity Rank :1.25double/bin.
- Tolerance of measurement of luminous intensity : ?0%
- Tolerance of measurement of dominant wavelength : ?.0nm
- Tolerance of measurement of forward voltage : ?.1V

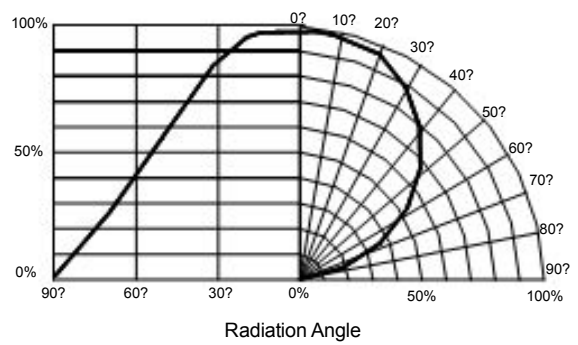
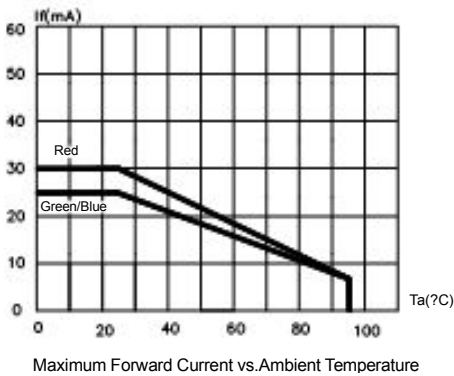
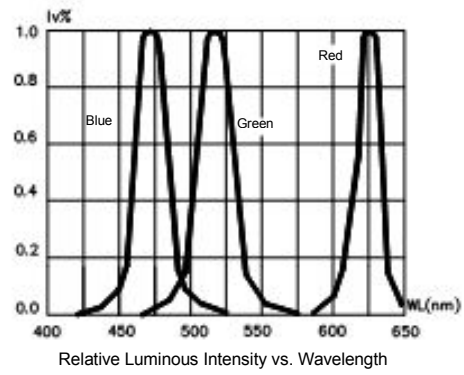
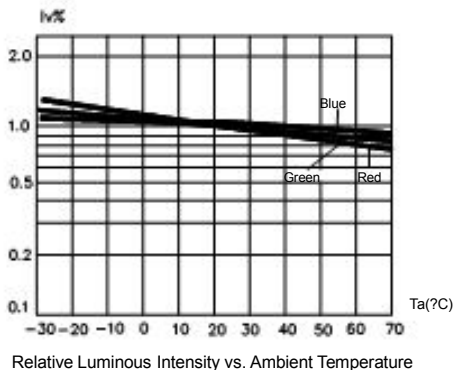
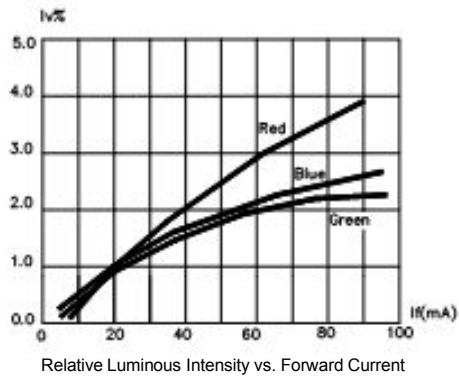
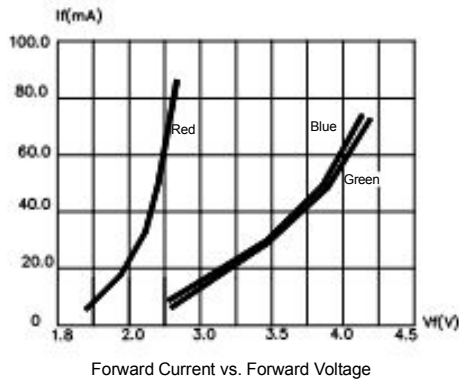


5050 PLCC LED

ESS-5050RGBC-T3

REV:A / 0

Typical Electrical/ Optical Characteristics Curves (Ta=25 °C Unless Otherwise Noted)





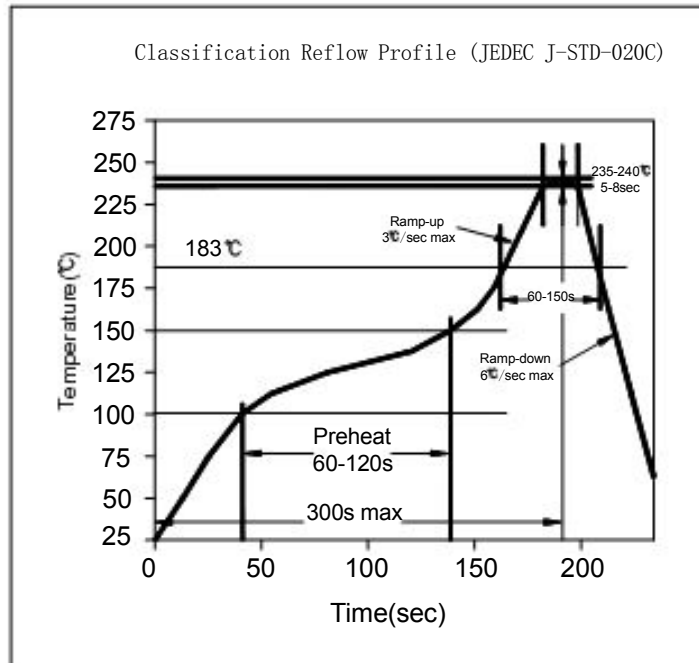
5050 PLCC LED

ESS-5050RGBC-T3

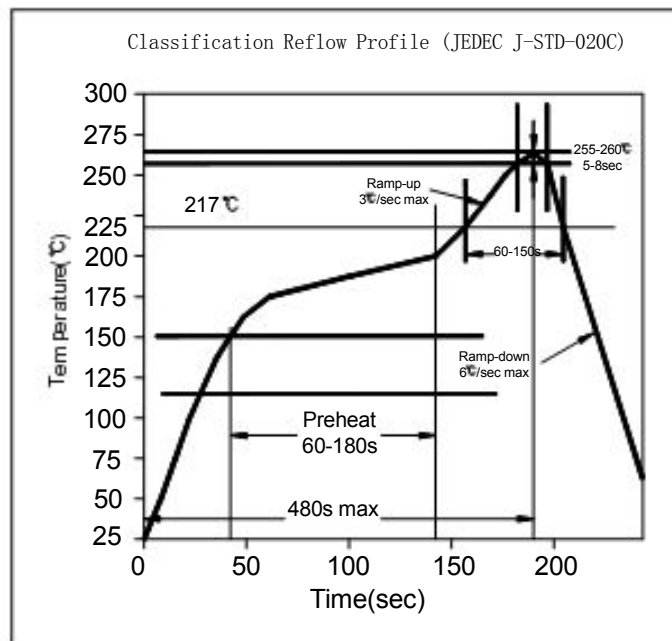
REV:A / 0

Soldering heat reliability:

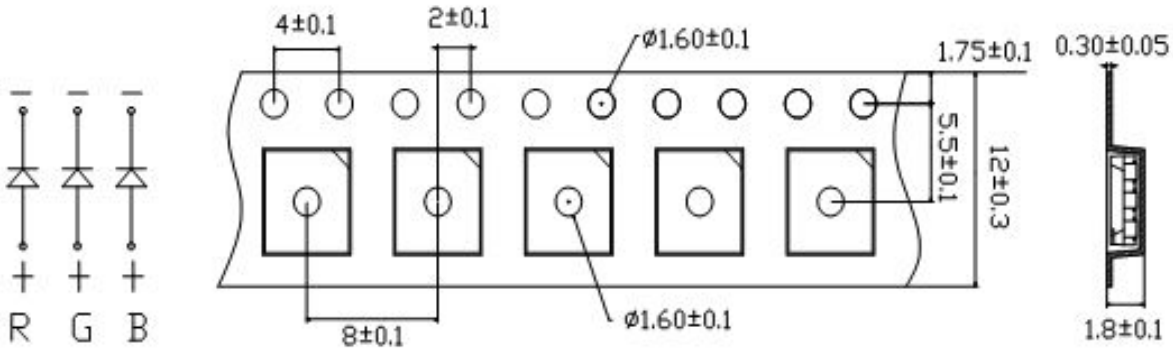
Lead Solder



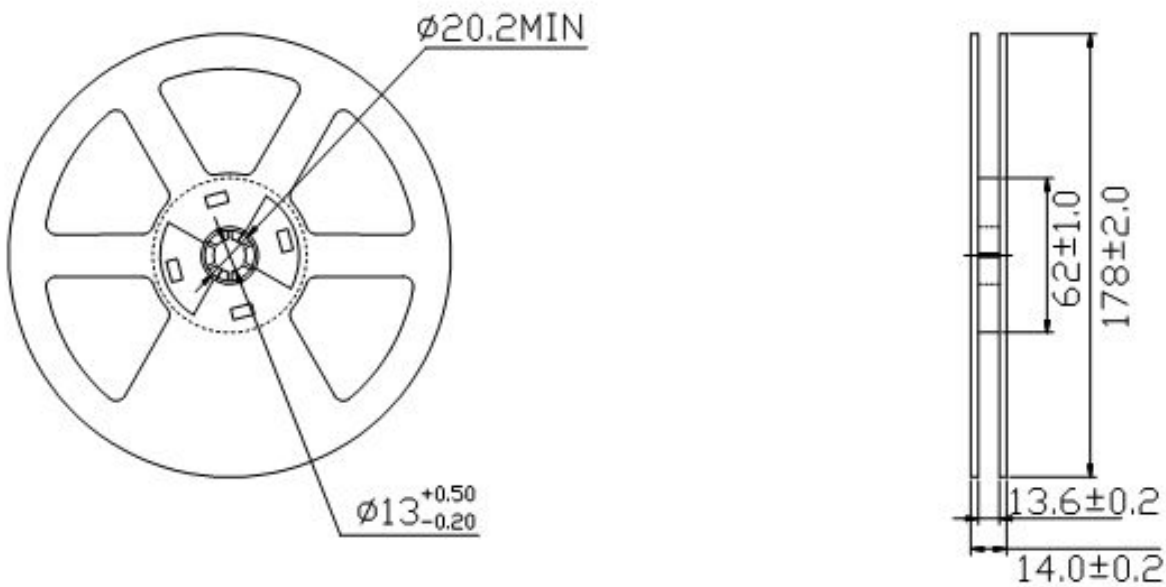
Lead Free Solder



Packing Specifications:



Reel Specifications



Dimensions are specified as follows:mm

Notes:

- 1) The packing only appropriate for GMDZ
- 2) Normal packing quantity: 1,000pcs/reel