Part Number: LM-5050F-15RGB

- 504MM*10MM 5050 SMD LIGHT BAR (15LEDS)
- PRINTED CIRCUIT BOARD THICKNESS:0.2MM
- LED VIEW ANGLED:100 DEGREE
- PACKAGE:5METERS/REEL

■Absolute Maximum Rating (RED)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	300	mA
Peak Forward Current*	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	7.2	W
Electrostatic discharge	E_{SD}	2000	V
Operation Temperature	T_{opr}	-25∽+80	℃
Storage Temperature	T_{stg}	-40∽+80	℃
Lead Soldering Temperature*	T_{sol}	Max. 230℃ 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

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=100mA		12		V
Luminous Flux	Φ_V	I_F=100mA		10		lm
Peak Wavelength	λ_P	I_F=100mA	621	624		nm
Recommend Forward Current	I_F(rec)	--	--	--	300	mA

Notes:

1.Absolute maximum ratings Ta=25℃.

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: LM-5050F-15RGB

■Absolute Maximum Rating (GREEN)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	300	mA
Peak Forward Current*	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	2.4	W
Electrostatic discharge	E_{SD}	400	V
Operation Temperature	T_{opr}	-25∽+80	℃
Storage Temperature	T_{stg}	-40∽+80	℃
Lead Soldering Temperature*	T_{sol}	Max. 230℃ 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

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=100mA		12		V
Luminous Flux	Φ_V	I_F=100mA		35		lm
Peak Wavelength	λ_P	I_F=100mA	516	518		nm
Recommend Forward Current	I_F(rec)	--	--	--	300	mA

Notes:

1.Absolute maximum ratings Ta=25℃.

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: LM-5050F-15RGB

■Absolute Maximum Rating (BLUE)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	300	mA
Peak Forward Current*	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	2.4	W
Electrostatic discharge	E_{SD}	400	V
Operation Temperature	T_{opr}	-25∽+80	℃
Storage Temperature	T_{stg}	-40∽+80	℃
Lead Soldering Temperature*	T_{sol}	Max. 230℃ 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

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=100mA		12		V
Luminous Flux	Φ_V	I_F=100mA		10		lm
Peak Wavelength	λ_P	I_F=100mA	469	471		nm
Recommend Forward Current	I_F(rec)	--	--	--	300	mA

Notes:

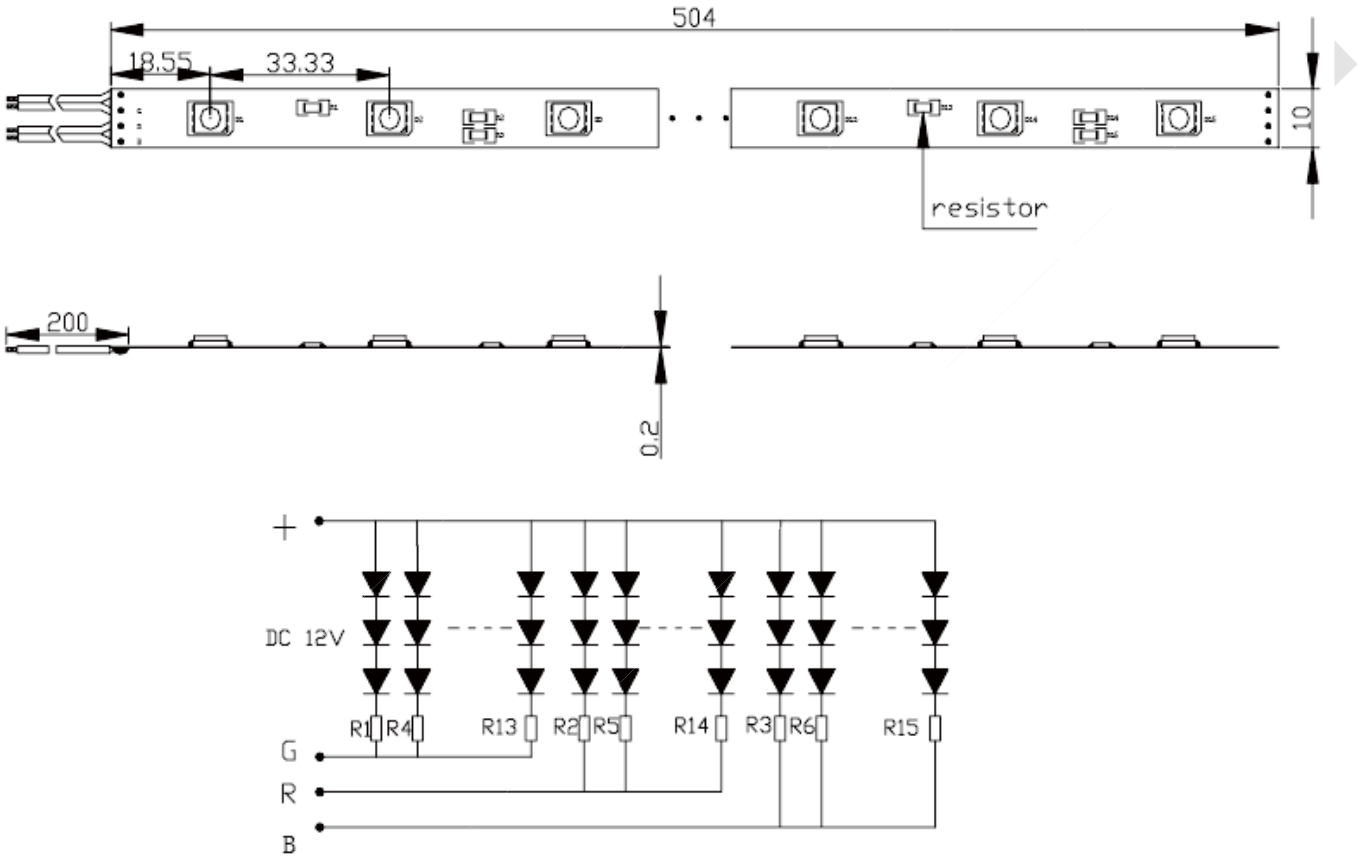
1.Absolute maximum ratings Ta=25℃.

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-LB5050RGBC-150P-12-S



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ±0.2mm 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..