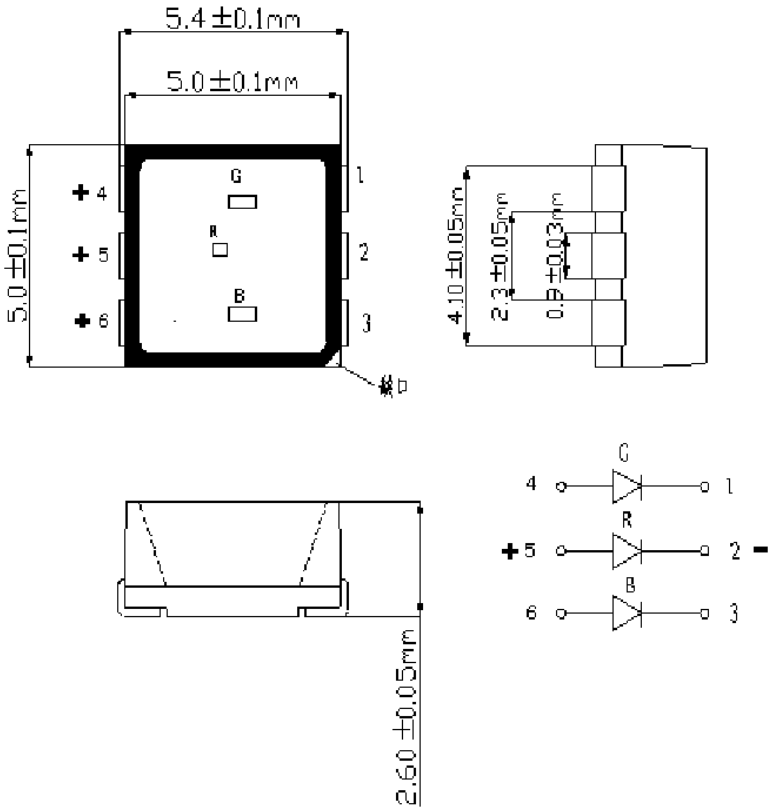
Approve Sheet

Product	**LED**	
Part Number	IE-5050RGB-ST-C06-Y	
Issue Date		
Customer specification		
Customer		
(mcd)	R:600-800mcd G:1400-1600mcd B:300-500mcd	
VF (V)	R:2.0-2.4V G:3.0-3.4V B:3.0-3.4V	
CRI		
remarks		
Maker		
Prepared	**Checked**	**Customer Comfirmation**

Package Dimensions:



Notes

All dimensions are in millimeters (inches).
Tolerance is ± 0.25mm (.010") unless otherwise noted.
Protruded resin under flange is 1.0mm(.04") max.
Lead spacing is measured where the leads emerge from the package.
Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25℃

Parameter	Valce			Unit
Power Dissipation	R	G	B	mW
	40	60	60	
Pulsed Forward Current (1/10 Duty Cycle, 0.1ms Pulse width	100			mA
Continuous Forward Current	60			mA
Derating Linear From 50	0.4			mA /℃
Reverse Voltage	5			V
Operation Temperature Range	-30℃ to +80℃			
Storage Temperature Range	-40℃ to +80℃			
Lead Soldering Temperature [4mm (.157") From Body]	260℃ for 5 Seconds			

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol		Min	Typ.	Max	Unit	Test Condition
Luminous Intensity	IV	R	600	--	800	mcd	IF=20mA
		G	1400	--	1600		IF=20mA
		B	300	--	500		IF=20mA
Viewing Angle	2θ1/2		110	--	120	deg	Note 2
wave length(λd)	R		620	--	625	nm	IF=20mA
			625		630		
	G		515	--	520		IF=20mA
			520		525		
			525		530		
	B		460	--	465		IF=20mA
			465		470		
Forward Voltage R	VF	R	2.0	--	2.2	V	IF=20mA
			2.2		2.4		
		G	3.0	--	3.2		IF=20mA
			3.2		3.4		
		B	3.0	--	3.2		IF=20mA
			3.2		3.4		
Reverse Current	IR		--	--	5	μA	VR=5V

Notes:Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve.1/2 is the off-axis angle at which the luminous intensity is half the axial luminous and intensity.The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.The IV guarantee should be added ±15%.

INTENSITY BIN LIMIT (IF=3*20mA)

Red

BinCode	Min(mcd)	Max(mcd)
A	600	800

Green

Bin Code	Min(mcd)	Max(mcd)
A	1400	1600

Blue

BinCode	Min(mcd)	Max(mcd)
A	300	500

COLOR BIN LIMIT(IF=3*20mA)

Red

BinCode	Min(nm)	Max(nm)
A	620	625
B	625	630

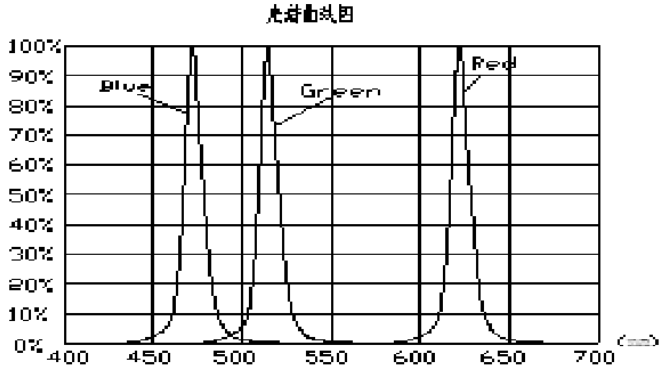
Green

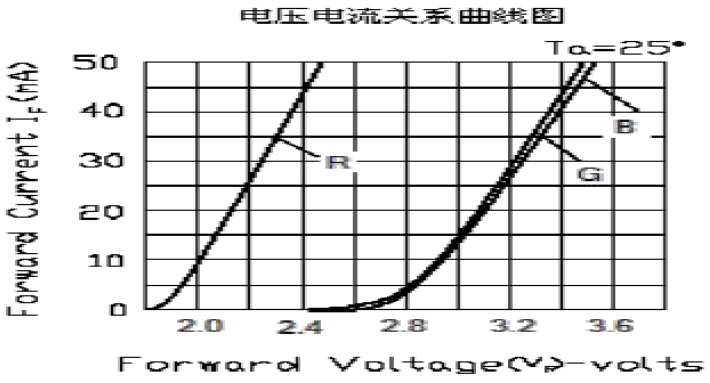
Bin Code	Min(nm)	Max(nm)
A	515	520
B	520	525
C	525	530

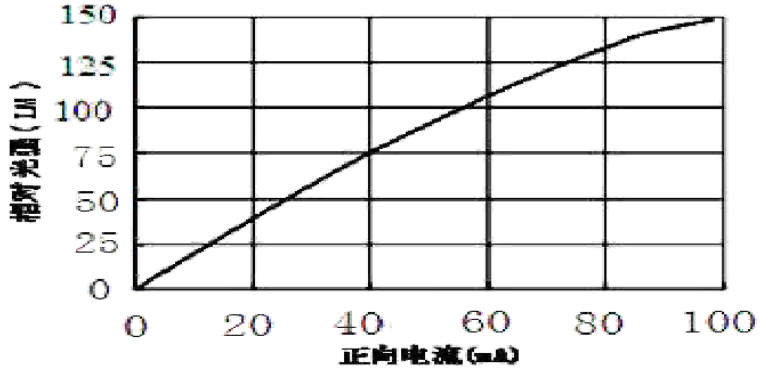
Blue

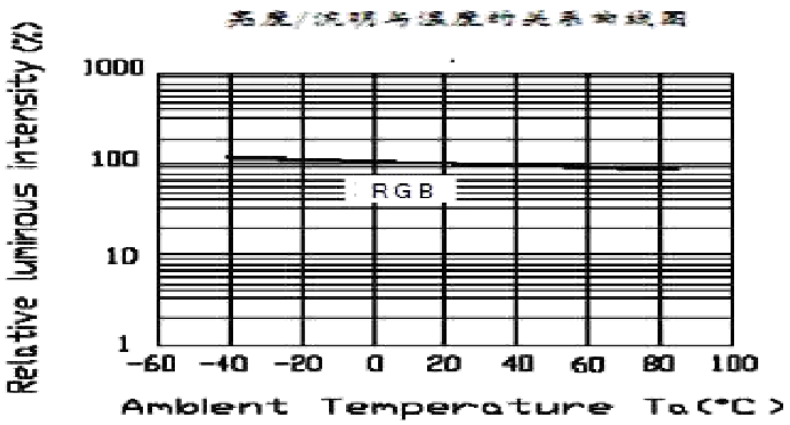
BinCode	Min(nm)	Max(nm)
A	460	465
B	465	470

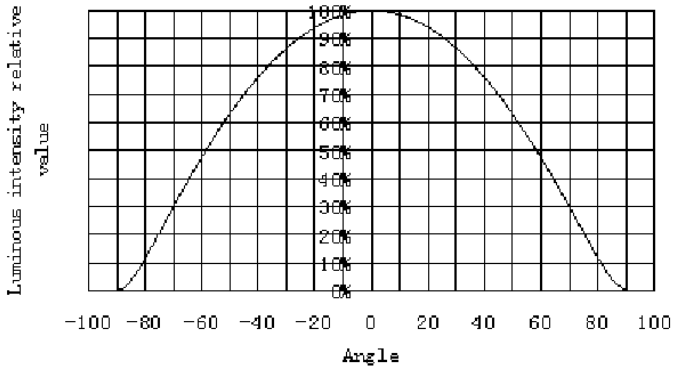
Optical Characteristics







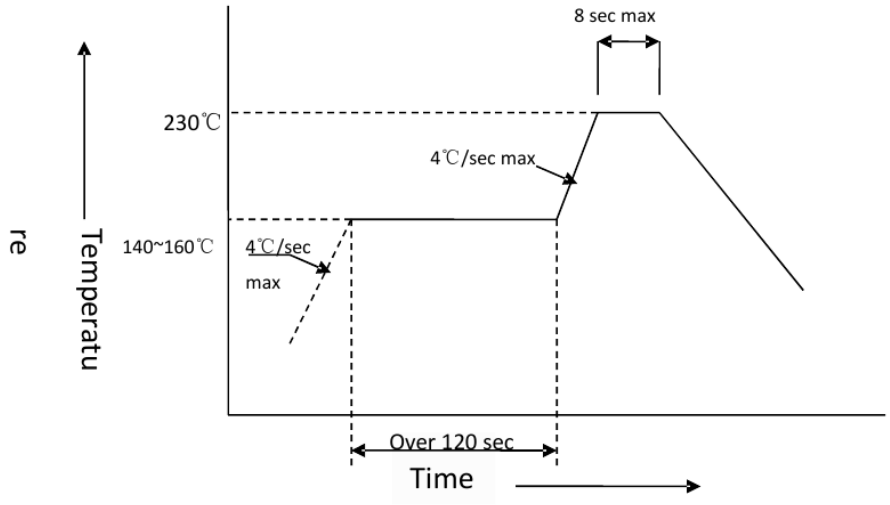

亮度/光明与温度的关系曲线图
Relative luminous intensity (%)
1000
100
10
1
RGB
-60 -40 -20 0 20 40 60 80 100
Ambient Temperature Ta(°C)


Luminous intensity relative value
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
-100 -80 -60 -40 -20 0 20 40 60 80 100
Angle

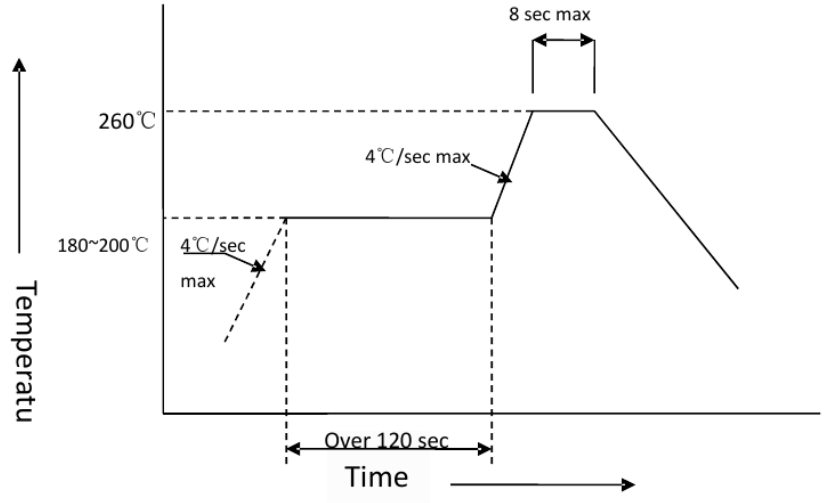
Reflow Soldering Instructions

Number of reflow process shall be less than 1 times and cooling

1>Lead Solder

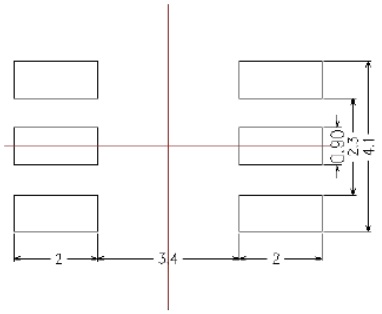


2>Lead-Free Solder



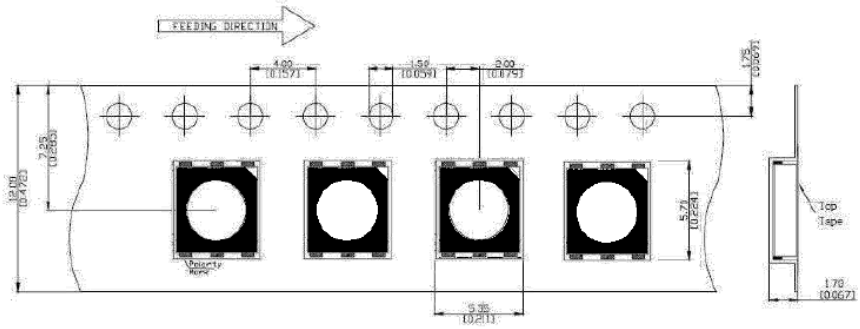
Recommended Soldering Patter

<Units:mm>



Method of Taping / Polarity and Orientation

Packing unit 1000/reel, ø180 mm



Adhesion Strength of Cover Tape : Adhesion strength to be 0.1 – 0.7N when the cover tape is turned off fromthe carrier at 10°angle to be the carrier tape.

SMD LED