

FEATURES

- Maximum drive current: up to 1500 mA
- Maximum junction temperature: 150 °C
- Electrically neutral thermal path

White Chromaticity Region

Region	x	y
51	.2870	.3210
	.2980	.2880
	.3429	.3307
	.3480	.3840

Brightness

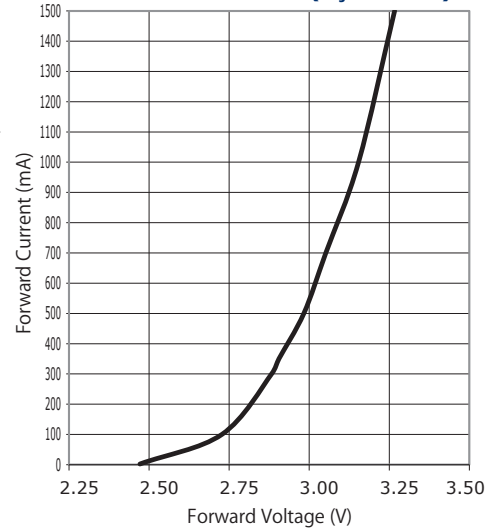
Code	Min.	Max.
R4	130	139

@I_F : 350mA (unit : lumen)

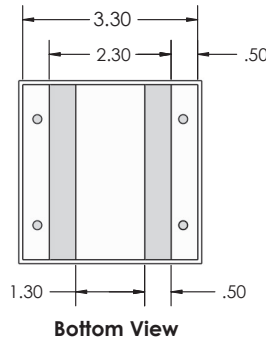
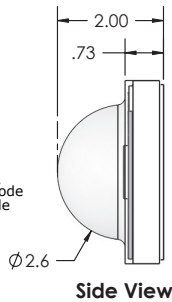
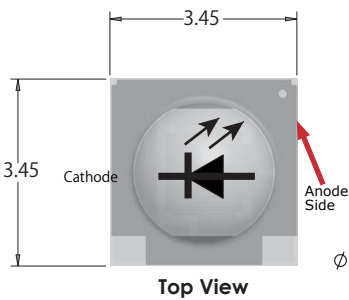
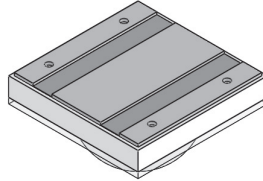
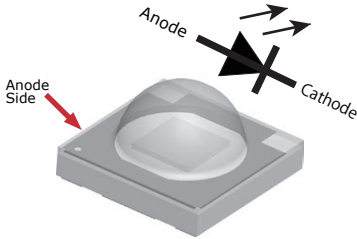
CHARACTERISTICS

Characteristics	Unit	Typical	Maximum
Thermal Resistance, junction to solder point	°C/w	4	
Viewing Angle (FWHM)	degrees	125	
Temperature Coefficient of Voltage	mV/°C	-2.1	
DC Forward Current	mA		1500
Reverse Voltage	V		5
Forward Voltage (@ 350 mA, 25°C)	V	2.9	3.25
Forward Voltage (@ 700 mA, 25°C)	V	3.05	
Forward Voltage (@ 1000 mA, 25°C)	V	3.15	
Forward Voltage (@ 1500 mA, 25°C)	V	3.25	
LED Junction Temperature	°C		150

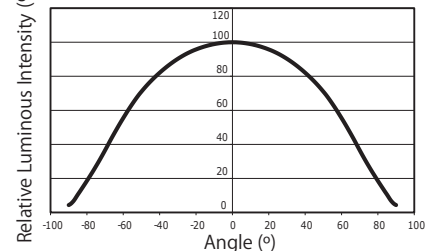
ELECTRICAL CHARACTERISTICS (T_J = 25 °C)



MECHANICAL DIMENSIONS

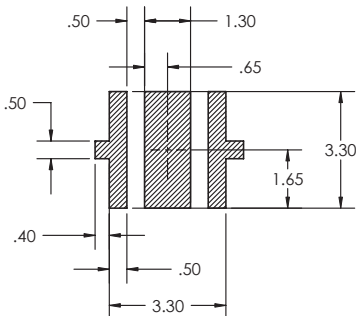


TYPICAL SPATIAL DISTRIBUTION

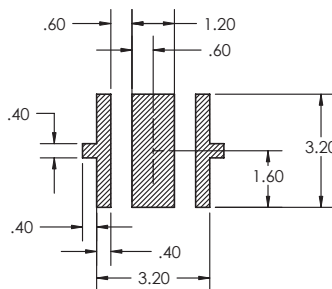


R4-Rank Characteristics

lumen (min)	I _F (mA)	V _F (V)	Wat (w)	lumen/W
130	350	2.9	1.015	128
243	700	3.05	2.135	114
325	1000	3.15	3.150	103
433	1500	3.25	4.875	88



RECOMMENDED PCB SOLDER PAD



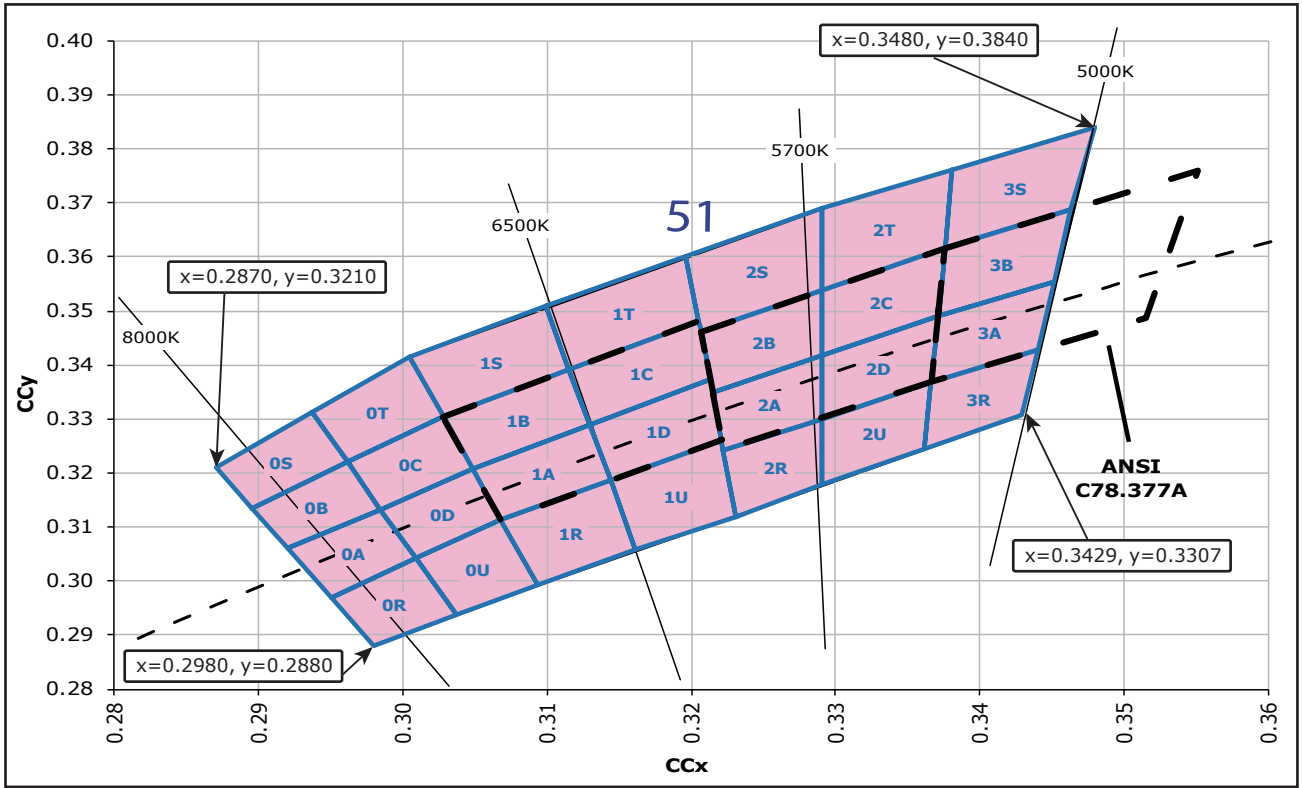
RECOMMENDED STENCIL PATTERN (HATCHED AREA IS OPENING)

XPGWHT-L1-0000-00G51 (size: 3.45 x 3.45mm) 6200K 130 lumen [R4-Rank] Cool White

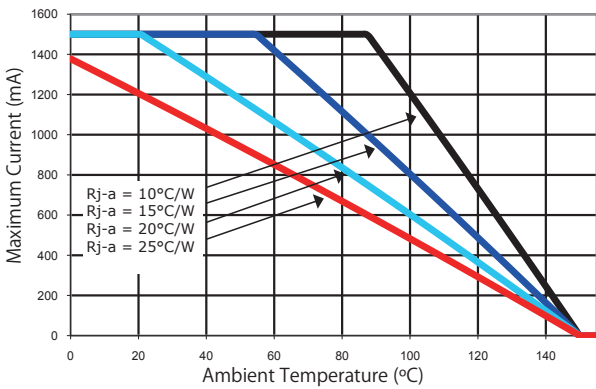
参考資料

CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE

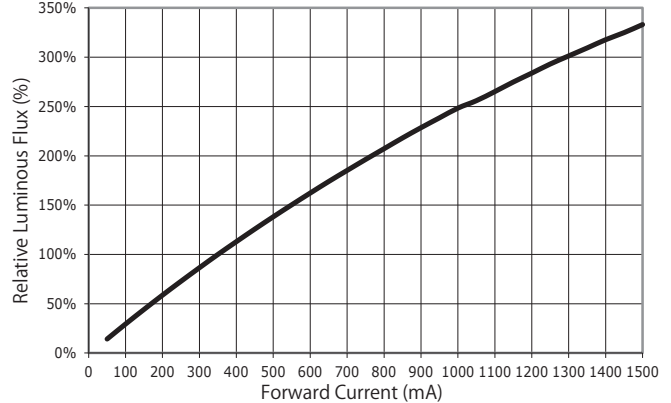
Cool White Chromaticity Region



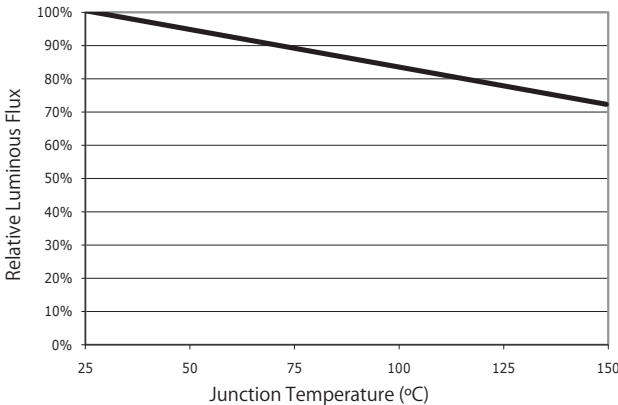
THERMAL DESIGN



RELATIVE FLUX VS. CURRENT ($T_j = 25^\circ\text{C}$)



RELATIVE FLUX VS. JUNCTION TEMPERATURE



RELATIVE SPECTRAL POWER DISTRIBUTION

