

Optical / Characteristics at T_j=25°C

Colour	Dominant Wavelength λ _d		Viewing Angle Degree 2θ _{1/2}
	Min.	Max.	
Amber	585nm	597.5nm	130
Blue	455nm	475nm	150
Green	515nm	535nm	
Red	615nm	630nm	130

Notes

- [1]: Peak Wavelength (λ_p)
- CCT ±5% tester tolerance.
- Wavelength is measured with an accuracy of ±0.5nm.

Flux Characteristics (T_j=25°C)

Part Number	Colour	Forward current	Minimum Luminous Flux(lm)	Typical Luminous Flux(lm)	Beam Pattern
MPTHEL-CLAX	Amber	350mA	55Lm	75Lm	Lambertian
MPTHEL-CLBX	Blue		24Lm	30Lm	
MPTHEL-CLG	Green		100Lm	120Lm	
MPTHEL-CLRX	Red		45Lm	65Lm	

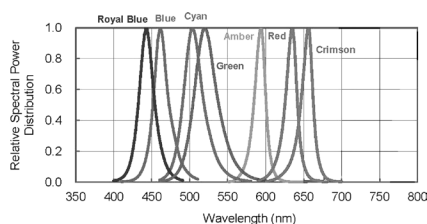
Electrical Characteristics (T_j=25°C)

Part Number	Colour	Forward current	Forward Voltage V _F (V)			Temperature Coefficient of V _F (mV/°C) ΔV _F /ΔT _j	Thermal Resistance Junction to lead (°C/W)
			Min.	Typ.	Max.		
MPTHEL-CLAX	Amber	350mA	1.8	2.2	2.8	-2	10
MPTHEL-CLBX	Blue		2.9	3.3	3.6		
MPTHEL-CLG	Green		2.9	3.4	3.7		
MPTHEL-CLRX	Red		1.8	2.2	2.8		

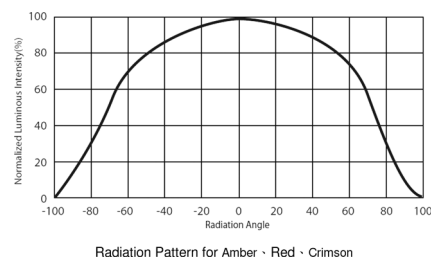
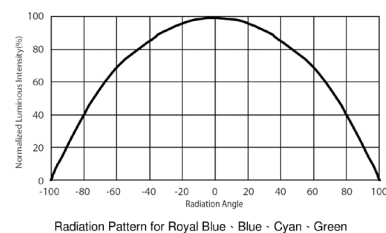
Notes

- V_F ±0.1V tester tolerance.

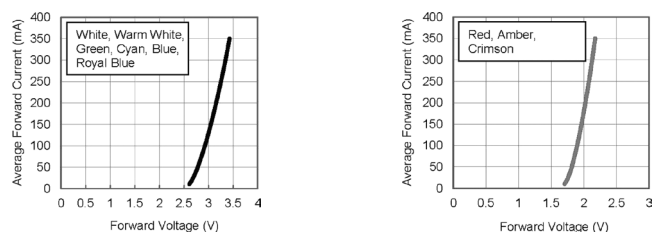
Wavelength Spectrum, T_a=25°C



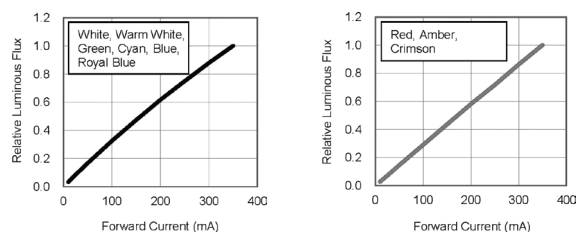
Typical Spatial Radiation Pattern



Forward current vs. Forward Voltage Characteristics

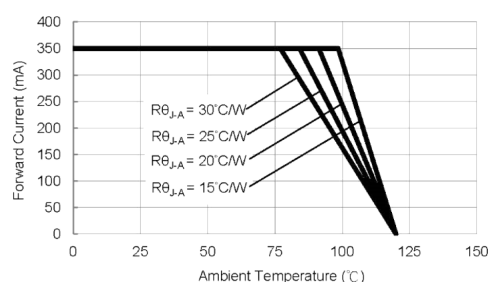


Relative intensity vs. Forward Current

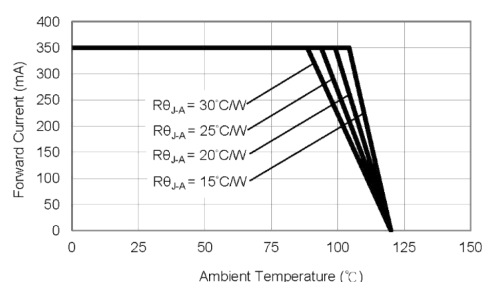


Ambient Temperature vs. Maximum Forward Current

Green, Cyan, Blue, Royal Blue (T_{JMAX} = 120°C)

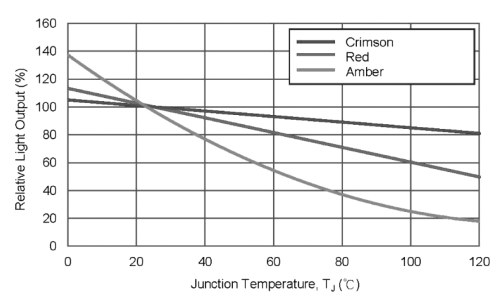
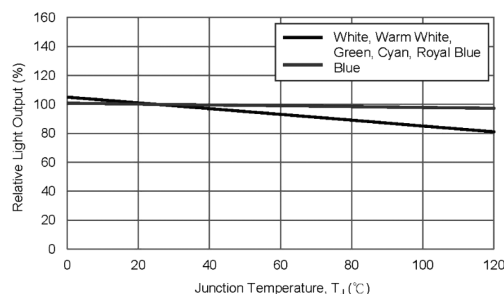


Red, Amber, Crimson (T_{JMAX} = 120°C)



Light Output Characteristics

Relative Light Output vs. Junction Temperature at 350mA



Part Number Table

Description	Part Number
High Brightness LED, Amber, SMD, 350mA, 597.5nm	MPTHEL-CLAX
High Brightness LED, Blue, SMD, 350mA, 475nm	MPTHEL-CLBX
High Brightness LED, Green, SMD, 350mA, 535nm	MPTHEL-CLG
High Brightness LED, Red, SMD, 350mA, 630nm	MPTHEL-CLRX

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