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X42180-06

Z-Power series is designed for high current operation and high flux output applications.



Z-Power LED's thermal management perform exceeds other power LED solutions.

It incorporates state of the art SMD design and Thermal emission material.

Z Power LED is ideal light sources for general illumination applications, custom designed solutions, automotive large LCD backlights

X42180-06

Features

- Super high flux output and high luminance
- Designed for high current operation
- Low thermal resistance
- SMT solderability
- Lead free product
- RoHS compliant

Applications

- Mobile phone flash
- Automotive interior / Exterior lighting
- Automotive signal lighting
- Automotive forward lighting
- Torch
- Architectural lighting
- LCD TV / Monitor backlight
- Projector light source
- Traffic signals
- Task lighting
- Decorative / Pathway lighting
- Remote / Solar powered lighting
- Household appliances

*The appearance and specifications of the product may be changed for improvement without notice.

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Full Code of Z-Power LED Series

Full code form : $X_1 X_2 X_3 X_4 X_5 X_6 X_7 - X_8 X_9 - X_{10} X_{11} X_{12} X_{13} X_{14}$

1. Part Number

- X₁: Color
- X₂: Z-Power LED series number
- X₃: LENS type
- X₄: Chip quantity (or Power Dissipation)
- X₅: Package outline size
- X₆: Type of PCB
- X₇: Grade of characteristic code

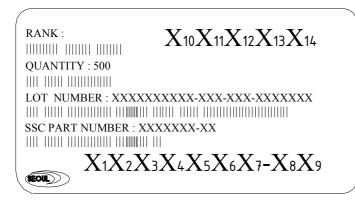
2. Internal Number

- X_{8.} X₉: Revision No.

3. Code Labeling

- X₁₀: Luminous flux (or Radiant flux for royal blue)
- $X_{11} X_{12} X_{13}$: Dominant wavelength (or x,y coordinates rank code)
- X₁₄: Forward voltage

4. Sticker Diagram on Reel & Aluminum Vinyl Bag



For more information about binning and labeling, refer to the Application Note -1

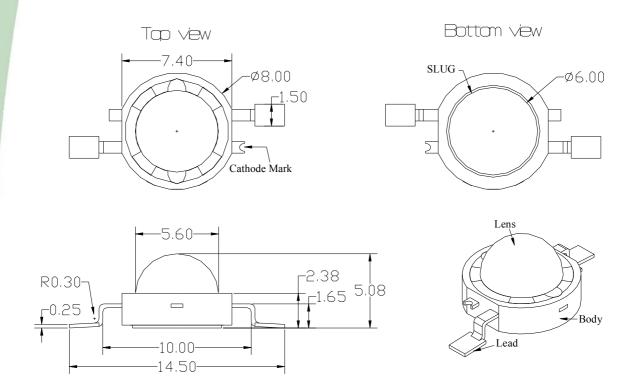
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Outline Dimension

1. Dome Type



Notes:

- 1. All dimensions are in millimeters. (tolerance : ± 0.2)
- 2. Scale: none3. Slug of package is connected to anode.

*The appearance and specifications of the product may be changed for improvement without notice.



1. Pure White (W42180-06)

1-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter		Symbol	Value			Unit
		Syllibol	Min	Тур	Max	Oilit
Luminous Flux [1]	T rank	Φ _V [2]	70	80	91	lm
Luminous Flux (-)	U rank	Φ _V [2]	91	105	-	lm
Correlated Color Temper	ature [3]	CCT	-	6300	-	K
CRI		R_a	-	75	-	-
Forward Voltage [[]	4]	V_{F}	3.0	3.25	4	V
View Angle		20 ½		127		deg.
Thermal resistance	[5]	$R\theta_{J-B}$		8.8		°C/W
Thermal resistance	[6]	$R\theta_{J-C}$		7.2		°C/W

1-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	т	1000 (@ Tj = 90 °C) [7]	
	I_{F}	1800 (@ 1KHz, 1/10 duty)	mA
Power Dissipation	P_d	4	W
Junction Temperature	T _j	145(@ I _F ≤ 700mA)	°C
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
ESD Sensitivity [8]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance.
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} <math>\leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. (25 °C \leq T $_{J} <math>\leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC.
- [7] I_F Max is guaranteed under the T_J \leq 90 °C.
- [8] It is included the zener chip to protect the product from ESD.

------Caution------

1. Please do not drive at rated current more than 5 sec. without proper heat sink.

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2. Warm White (N42180-06)

2-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			Unit
Parameter	Эунион	Min	Тур	Max	Oilit
Luminous Flux [1]	Φ _V ^[2]	-	72	-	lm
Correlated Color Temperature [3]	CCT	-	3000	-	K
CRI	R_a	-	93	-	-
Forward Voltage ^[4]	V_{F}	3.0	3.25	4	V
View Angle	20 1/2	124		deg.	
Thermal resistance [5]	$R\theta_{J-B}$	8.8		°C/W	
Thermal resistance [6]	Rθ _{J-C}		7.2		°C/W

2-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	3.2	W
Junction Temperature	T _j	145	٥C
Operating Temperature	T_{opr}	-40 ~ +85	٥C
Storage Temperature	T_{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [4] A tolerance of $\pm 0.06 V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

------Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

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3. Warm White (N42180H-06)

3-1 Electro-Optical characteristics at I_F=350mA, T_A=25°C

Parameter	Symbol	Value			Unit
Parameter	Эунион	Min	Тур	Max	Oilit
Luminous Flux [1]	Φ _V ^[2]	-	86	-	lm
Correlated Color Temperature [3]	CCT	-	3000	-	K
CRI	R_a	-	80	-	-
Forward Voltage ^[4]	V_{F}	3.0	3.25	4	V
View Angle	20 1/2	124		deg.	
Thermal resistance [5]	$R\theta_{J-B}$	8.8		°C /W	
Thermal resistance [6]	Rθ _{J-C}		7.2		°C/W

3-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	3.2	W
Junction Temperature	T _j	145	٥C
Operating Temperature	T_{opr}	-40 ~ +85	٥C
Storage Temperature	T_{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

-----Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

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4. Natural White (S42180-06)

4-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			Unit
Parameter	Symbol	Min	Тур	Max	Unit
Luminous Flux [1]	Φ _V ^[2]	-	76	-	lm
Correlated Color Temperature [3]	CCT	-	4000	-	K
CRI	R_a	-	93	-	-
Forward Voltage ^[4]	V_{F}	3.0	3.25	4	V
View Angle	20 1/2	124		deg.	
Thermal resistance ^[5]	Rθ _{J-B}	8.8		°C /W	
Thermal resistance [6]	Rθ _{J-C}		7.2		°C /W

4-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	3.2	W
Junction Temperature	T_{j}	145	٥C
Operating Temperature	T_{opr}	-40 ~ +85	٥C
Storage Temperature	T_{stg}	-40 ~ +100	٥C
ESD Sensitivity [8]	-	$\pm 10,000$ V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance.
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. (25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC.
- [7] It is included the zener chip to protect the product from ESD.

-----Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

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5. Natural White (S42180H-06)

5-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			Unit
Parameter	Syllibol	Min	Тур	Max	Unit
Luminous Flux [1]	Φ _V ^[2]	-	94	-	lm
Correlated Color Temperature [3]	ССТ	-	4000	-	K
CRI	R_a	-	80	-	-
Forward Voltage ^[4]	V_{F}	3.0	3.25	4	V
View Angle	20 1/2	124		deg.	
Thermal resistance ^[5]	Rθ _{J-B}	8.8		°C /W	
Thermal resistance ^[6]	Rθ _{J-C}		7.2		°C /W

5-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	3.2	W
Junction Temperature	T_{j}	145	٥C
Operating Temperature	T_{opr}	-40 ~ +85	٥C
Storage Temperature	T_{stg}	-40 ~ +100	٥C
ESD Sensitivity [8]	-	$\pm 10,000$ V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance.
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. (25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC.
- [7] It is included the zener chip to protect the product from ESD.

-----Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

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6. Blue (B42180-06)

6-1 Electro-Optical characteristics at I_F=350mA, T_A=25°C

Parameter	Symbol	Value			Unit
Parameter	Symbol	Min	Тур	Max	Unit
Luminous Flux [1]	Φ _V ^[2]	-	22	-	lm
Dominant Wavelength ^[3]	λ_{D}	455	465	475	nm
Forward Voltage ^[4]	V_{F}	3.0	3.25	4	V
View Angle	20 1/2	130		deg.	
Thermal resistance ^[5]	Rθ _{J-B}	8.8			°C /W
Thermal resistance [6]	Rθ _{J-C}		7.2		°C /W

6-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	1000	mA
Power Dissipation	P_d	4	W
Junction Temperature	T _j	145	oC
Operating Temperature	T_{opr}	-40 ~ +85	oC
Storage Temperature	T_{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Dominant wavelength is derived from the CIE 1931 Chromaticity diagram. A tolerance of ± 0.5 nm for dominant wavelength
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

----Caution-----

- 1. Please do not drive at rated current more than 5 sec. without proper heat sink
- 2. Blue power light sources represented here are IEC825 Class 2 for eye safety

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7. Royal Blue (D42180-06)

7-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			I I with
		Min	Тур	Max	Unit
Radiant Power [1]	Φ _V ^[2]	-	468	-	mW
Dominant Wavelength ^[3]	λ_{D}	455	457	460	nm
Forward Voltage ^[4]	V_{F}	3.0	3.25	3.8	V
View Angle	20 1/2		130		deg.
Thermal resistance [5]	Rθ _{J-B}	8.8		°C /W	
Thermal resistance [6]	Rθ _{J-C}		7.2		°C/W

7-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	1000	mA
Power Dissipation	P_d	4	W
Junction Temperature	T_{j}	145	oC
Operating Temperature	T_{opr}	-40 ~ +85	oC
Storage Temperature	T_{stg}	-40 ~ +100	oC
ESD Sensitivity [7]	-	$\pm 10,000$ V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

---Caution---

- 1. Please do not drive at rated current more than 5 sec. without proper heat sink
- 2. Blue power light sources represented here are IEC825 Class 2 for eye safety

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8. Green (G42180-06)

8-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			Unit
Parameter		Min	Тур	Max	Offic
Luminous Flux [1]	Φ _V ^[2]	-	70	-	lm
Dominant Wavelength ^[3]	λ_{D}	520	525	535	nm
Forward Voltage ^[4]	V_{F}	3.0	3.25	4.1	V
View Angle	20 1/2		130		deg.
Thermal resistance ^[5]	Rθ _{J-B}	9.5		°C /W	
Thermal resistance [6]	Rθ _{J-C}		8.0		°C /W

8-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	1000	mA
Power Dissipation	P_d	4	W
Junction Temperature	T_{j}	145	oC
Operating Temperature	T_{opr}	-40 ~ +85	oC
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	$\pm 10,000$ V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_{V} is the total luminous flux output as measured with an integrated sphere.
- [3] Dominant wavelength is derived from the CIE 1931 Chromaticity diagram. A tolerance of ± 0.5 nm for dominant wavelength
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_{J} \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_{J} \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

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9. Red (R42180-06)

9-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			llmit.
		Min	Тур	Max	Unit
Luminous Flux [1]	Φ _V ^[2]	-	48	-	lm
Dominant Wavelength ^[3]	λ_{D}	618	625	630	nm
Forward Voltage ^[4]	V_{F}	2.0	2.3	3.0	V
View Angle	20 1/2		130		deg.
Thermal resistance ^[5]	Rθ _{J-B}	9		°C /W	
Thermal resistance [6]	Rθ _{J-C}		7.8		°C /W

9-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	2.4	W
Junction Temperature	T _j	145	oC
Operating Temperature	T_{opr}	-40 ~ +85	oC
Storage Temperature	T_{stg}	-40 ~ +100	oC
ESD Sensitivity [7]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Dominant wavelength is derived from the CIE 1931 Chromaticity diagram. A tolerance of ± 0.5 nm for dominant wavelength
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_J$ \leq 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_J$ \leq 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

-----Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

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10. Amber (A42180-06)

10-1 Electro-Optical characteristics at I_F =350mA, T_A =25°C

Parameter	Symbol	Value			Unit
		Min	Тур	Max	Offic
Luminous Flux [1]	Φ _V ^[2]	-	48	-	lm
Dominant Wavelength ^[3]	λ_{D}	585	590	595	nm
Forward Voltage ^[4]	V_{F}	2.0	2.3	3.0	V
View Angle	20 1/2		130		deg.
Thermal resistance [5]	Rθ _{J-B}	9		°C /W	
Thermal resistance [6]	Rθ _{J-C}		7.8		°C /W

10-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	${ m I}_{\sf F}$	800	mA
Power Dissipation	P_d	2.4	W
Junction Temperature	T _j	145	oC
Operating Temperature	T_{opr}	-40 ~ +85	oC
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	±10,000V HBM	-

*Notes:

- [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Dominant wavelength is derived from the CIE 1931 Chromaticity diagram. A tolerance of ± 0.5 nm for dominant wavelength
- [4] A tolerance of $\pm 0.06V$ on forward voltage measurements
- [5], [6] $R\theta_{J-B}$ is measured with a SSC metal core pcb.(25 °C \leq T $_J \leq$ 110 °C) $R\theta_{J-C}$ is measured with only emitter. .(25 °C \leq T $_J \leq$ 110 °C) Break voltage of Metal PCB is 6.5kVAC
- [7] It is included the zener chip to protect the product from ESD.

-----Caution-----

1. Please do not drive at rated current more than 5 sec. without proper heat sink

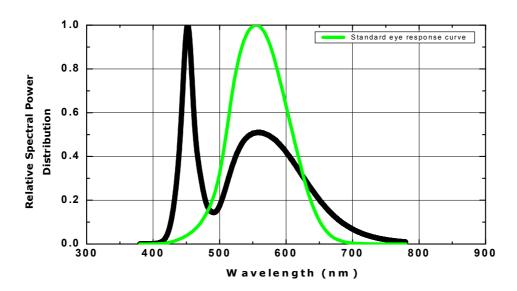
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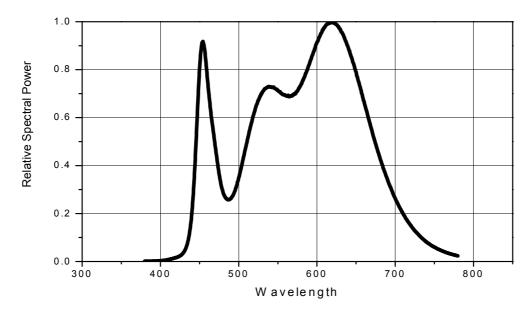


Color Spectrum, T_A=25°C

1. Pure White (W42180-06)



2. Warm White (N42180-06)



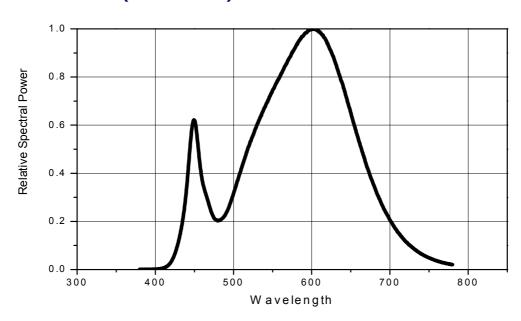
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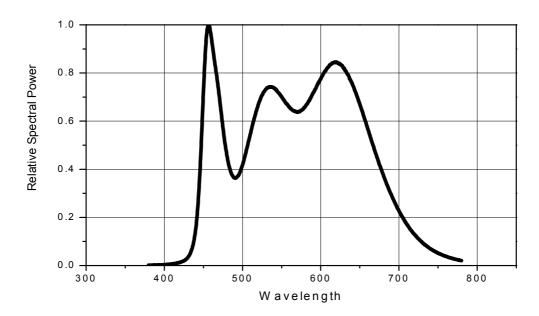


Color Spectrum, T_A=25°C

3. Warm White (N42180H-06)



4. Natural White (S42180-06)



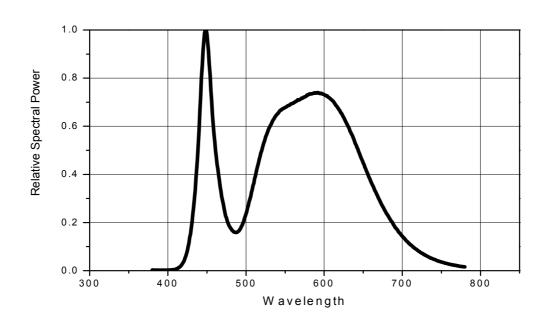
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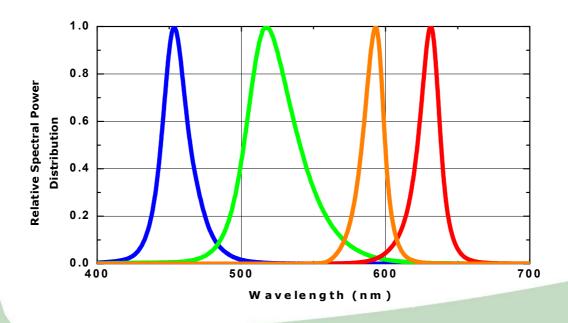


Color Spectrum, T_A=25°C

5. Natural White (S42180H-06)



6. Red, Amber, Green, Blue(Royal Blue)



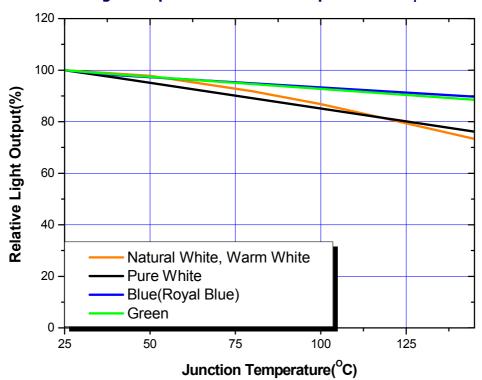
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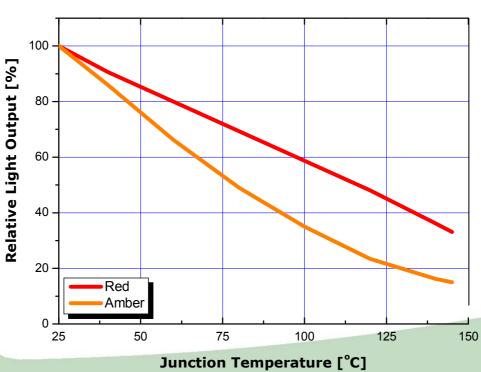
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Junction Temperature Characteristics

1. Relative Light Output vs. Junction Temperature at I_F =350mA





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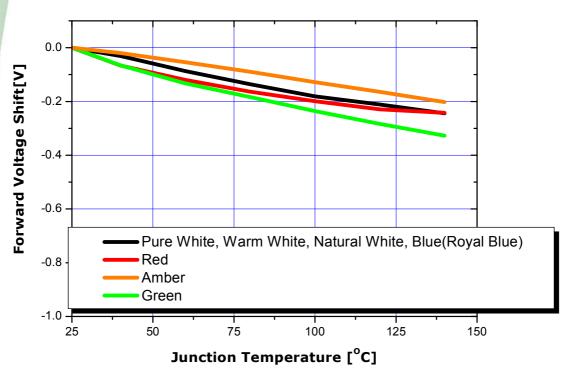
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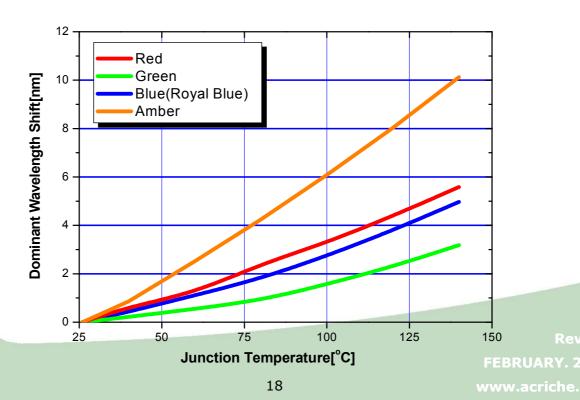


Junction Temperature Characteristics

2. Forward Voltage Shift vs. Junction Temperature at I_F =350mA

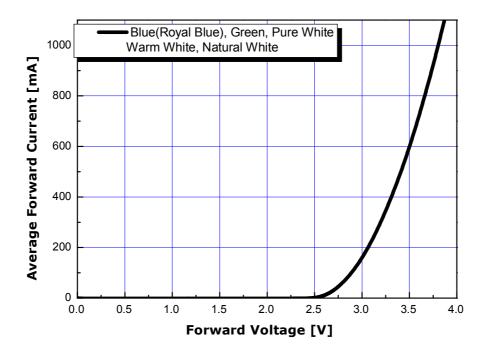


3. Wavelength Shift vs Junction Temperature at I_F =350mA



Forward Current Characteristics

1. Forward Voltage vs. Forward Current , T_A=25 °c





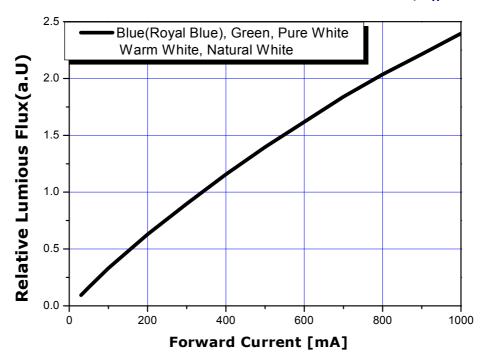
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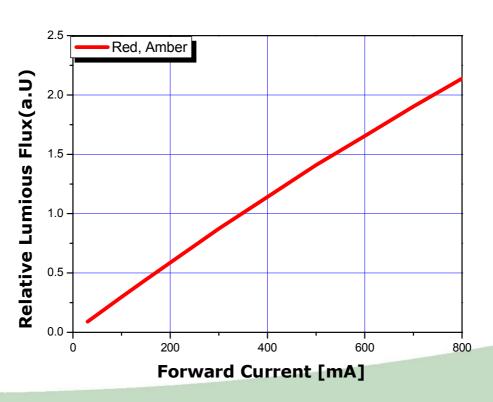
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Forward Current Characteristics

2. Forward Current vs. Normalized Relative Luminous Flux, T_A=25 °c





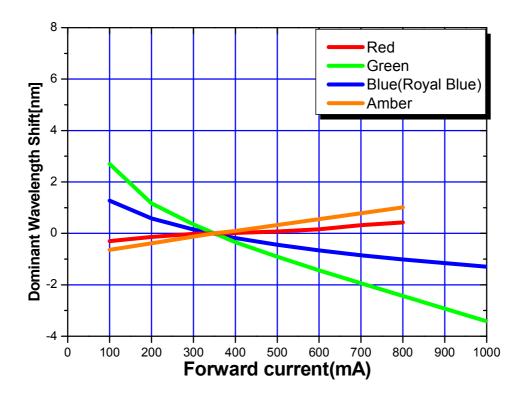
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Forward Current Characteristics

3. Forward Current vs Wavelength Shift, T_A=25 °c



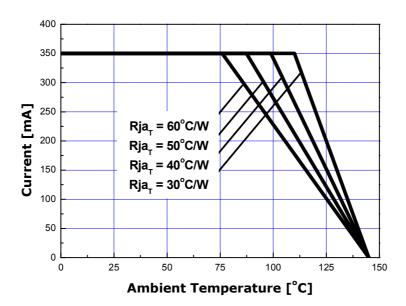
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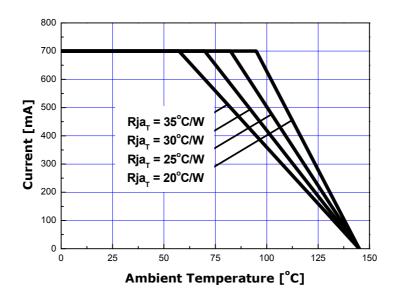


Ambient Temperature vs Allowable Forward Current

1-1. Pure White, Warm White, Natural White, Green, Blue(Royal Blue) (T_{JMAX} = 145 °C, @350mA)



1-2. Pure White, Warm White, Natural White, Green, Blue(Royal Blue) (T_{JMAX} = 145 ∘C, @700mA)



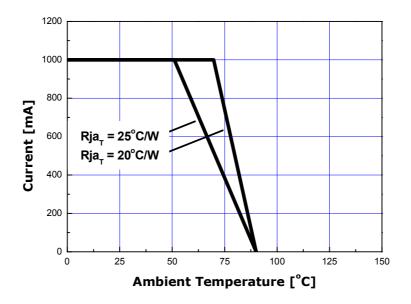
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Ambient Temperature vs Allowable Forward Current

1-3. Pure White, Green, Blue(Royal Blue) (T_{JMAX} = 90 °C, at 1000mA)



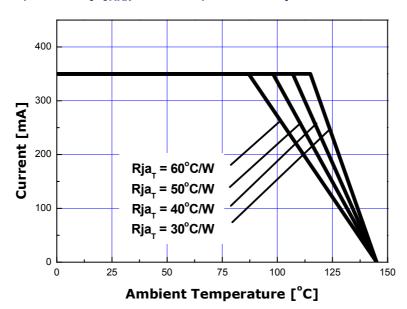
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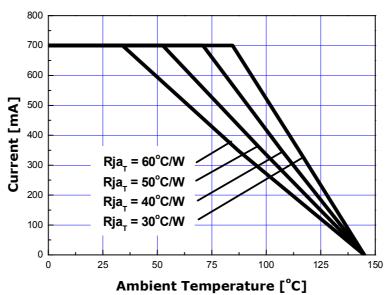


Ambient Temperature vs Allowable Forward Current

1-4. Red, Amber (T_{JMAX} = 145 °C, at 350mA)



1-5. Red, Amber (T_{JMAX} = 145 °C, @700mA)



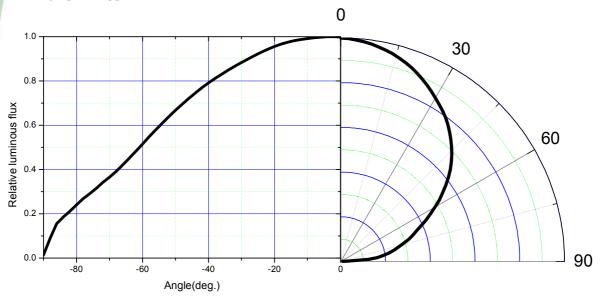
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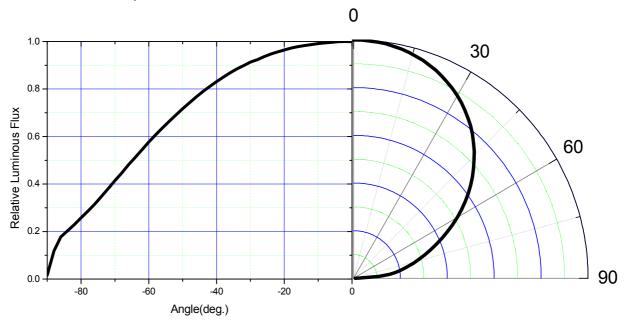


Typical Dome Type Radiation pattern

1. Pure White



2. Warm White, Natural White



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