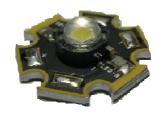


X42182

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

X42182

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

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

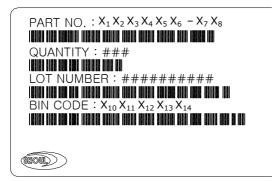
2. Internal Number

- X₇
- X₈

3. Code Labeling

- X₉: Luminous flux (or Radiant flux for royal blue)
- X₁₀ X₁₁ X₁₂ : Dominant wavelength (or x,y coordinates rank code)
- X_{13} : Forward voltage

4. Sticker Diagram on Reel & Aluminum Vinyl Bag

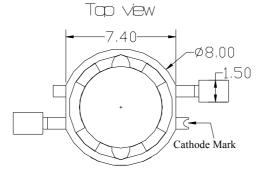


For more information about binning and labeling, refer to the Application Note -1

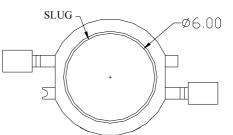
SEOUL SEMICONDUCTOR SEOUL

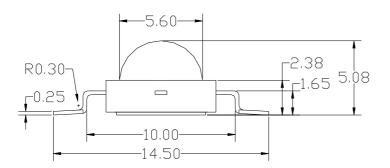
Outline Dimension

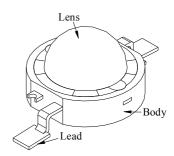
1. Dome Type



Bottom view



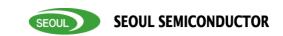




Notes :

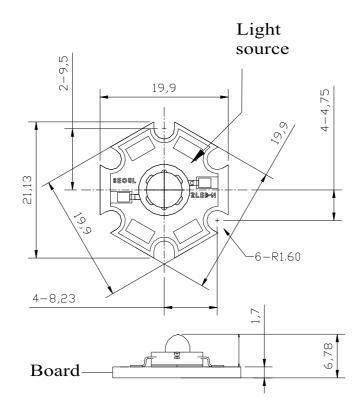
- 1. All dimensions are in millimeters. (tolerance : ± 0.2)
- Scale : none
 Slug of package is connected to anode.

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



Outline Dimension

2. PCB Type



Star Type

Notes :

- 1. All dimensions are in millimeters. (tolerance : ± 0.2)
- 2. Scale : none
- *The appearance and specifications of the product may be changed for improvement without notice.



Characteristics for Z-Power LED

1. Pure White (W42182)

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

Parameter		Symbol	Value			Unit
			Min	Тур	Max	Onic
Luminous Flux [1]	T rank	Φ _V [2]	70	80	91	lm
	U rank	Φ _V [2]	91	100	-	lm
Correlated Color Tempera	ature [3]	ССТ	-	6300	-	К
CRI		R _a	-	70	-	-
Forward Voltage ^{[4}	1]	V _F	2.9	3.25	4	V
View Angle		20 1⁄2		120		deg.
Thermal resistance [5]		Rθ _{J-B}	8.5			°C/W
Thermal resistance	[6]	Rθ _{J-C}		6.9		°C/W

1-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I _F	1000 (@ Tj = 90 °C) [7]	mA
Torward Current	±F	1800 (@ 1KHz, 1/10 duty)	ША
Power Dissipation	P _d	4	W
Junction Temperature	Τ _j	145(@ I _F ≤700mA)	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [8]	-	$\pm 10,000V$ 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 $\pm 5\%$

[4] A tolerance of $\pm 0.06V$ on forward voltage measurements

[5], [6] R θ_{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] I_F Max is guaranteed under the T₁ ≤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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Characteristics for Z-Power LED

2. Warm White (N42182)

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

Parameter	Symbol	Value			Unit
Falameter	Symbol	Min	Тур	Max	Onic
Luminous Flux [1]	Φ _V [2]	-	53	-	lm
Correlated Color Temperature [3]	ССТ	-	3000	-	К
CRI	R _a	-	93	-	-
Forward Voltage [4]	V _F	2.9	3.25	4	V
View Angle	20 1/2		124		deg.
Thermal resistance [5]	Rθ _{J-B}	8.5		°C/W	
Thermal resistance [6]	Rθ _{J-C}		6.9		°C/W

2-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_{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]	-	$\pm 10,000$ 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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Characteristics for Z-Power LED

3. Natural White (S42182)

3-1	Electro-Optical	characteristics	at I _F =350mA,	T _A =25°C
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Parameter	Symbol		Value		Unit
Falameter	Symbol	Min	Тур	Max	Unit
Luminous Flux [1]	Φ _V [2]	-	61	-	lm
Correlated Color Temperature [3]	ССТ	-	4000	-	К
CRI	R _a	-	93	-	-
Forward Voltage [4]	V _F	2.9	3.25	4	V
View Angle	20 1/2		124		deg.
Thermal resistance [5]	Rθ _{J-B}	8.5		°C /W	
Thermal resistance [6]	Rθ _{J-C}		6.9		°C /W

3-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I _F	800	mA
Power Dissipation	P _d	3.2	W
Junction Temperature	Tj	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 $\pm 5\%$

[4] A tolerance of $\pm 0.06V$ on forward voltage measurements

 $\begin{array}{l} [5], \ [6] \ \mathsf{R}\theta_{J\text{-}B} \text{ is measured with a SSC metal core pcb.} (25\ ^\circ\text{C} \leq T_J \leq 110\ ^\circ\text{C}) \\ & \mathsf{R}\theta_{J\text{-}C} \text{ is measured with only emitter.} \ (25\ ^\circ\text{C} \leq T_J \leq 110\ ^\circ\text{C}) \\ & \mathsf{Break} \text{ voltage of Metal PCB is } 6.5 \text{kVAC.} \end{array}$

 $\left[7\right]$ It is included the zener chip to protect the product from ESD.

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

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Characteristics for Z-Power LED

4. Blue (B42182)

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]	-	22	-	lm
Dominant Wavelength ^[3]	λ_{D}	455	465	475	nm
Forward Voltage [4]	V _F	2.9	3.25	4	V
View Angle	20 1/2		130		deg.
Thermal resistance [5]	Rθ _{J-B}	8.5		°C /W	
Thermal resistance [6]	Rθ _{J-C}		6.9		°C /W

4-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I _F	1000	mA
Power Dissipation	P _d	4	W
Junction Temperature	Tj	145	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	_	$\pm 10,000V$ 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.

 $\left[3\right]$ 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 θ_{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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Characteristics for Z-Power LED

5. Royal Blue (D42182)

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

Deveryoter	Gumbal	Value			11
Parameter	Symbol	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	2.9	3.25	3.8	V
View Angle	20 1/2		130		deg.
Thermal resistance [5]	Rθ _{J-B}	8.5		°C/W	
Thermal resistance [6]	Rθ _{J-C}		6.9		°C/W

5-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	Ι _F	1000	mA
Power Dissipation	P _d	4	W
Junction Temperature	Tj	145	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	$\pm 10,000V$ 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 θ_{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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Characteristics for Z-Power LED

6. Green (G42182)

6-1	Electro-Optical	l characteristics at I _F =350mA, T	_A =25°C
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Parameter	Symbol	Value			Unit
Faranteler		Min	Тур	Max	Onic
Luminous Flux ^[1]	Φ _V [2]	-	70	-	lm
Dominant Wavelength ^[3]	λ_{D}	520	525	535	nm
Forward Voltage [4]	V _F	2.9	3.25	4	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

6-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_{F}	1000	mA
Power Dissipation	P _d	4	W
Junction Temperature	Τ _j	145	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	_	$\pm 10,000V$ 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 sin

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Characteristics for Z-Power LED

7. Red (R42182)

Parameter	Symbol	Value			Unit
Faianeter		Min	Тур	Max	Onic
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]	$R\theta_{J-C}$		7.8		°C /W

7-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_F	800	mA
Power Dissipation	P _d	2.4	W
Junction Temperature	Tj	145	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	$\pm 10,000V$ 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 θ_{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.

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

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Characteristics for Z-Power LED

8. Amber (A42182)

8-1 Electro-Optical characteristics at I_F =350mA, T_A =2	5⁰C
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Parameter	Symbol	Value			Unit
Faianeter		Min	Тур	Max	Onic
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

8-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I _F	800	mA
Power Dissipation	P _d	2.4	W
Junction Temperature	Τ _j	145	٥C
Operating Temperature	T _{opr}	-40 ~ +85	٥C
Storage Temperature	T _{stg}	-40 ~ +100	٥C
ESD Sensitivity [7]	-	\pm 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.

 $\left[3\right]$ 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.

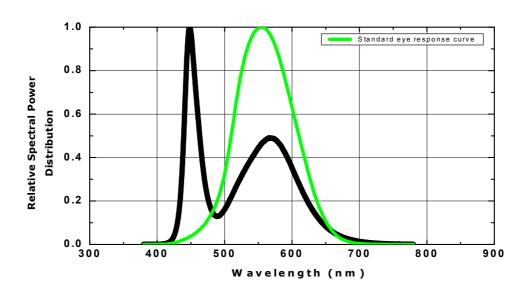
1. Please do not drive at rated current more than 5 sec. without proper heat sink

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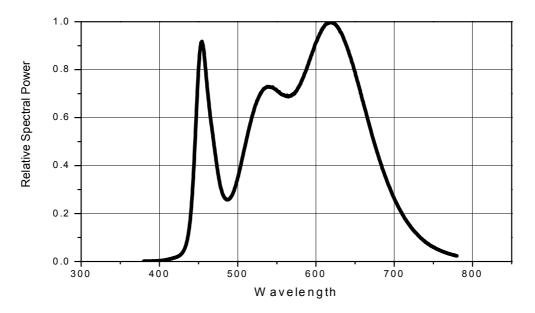


Color Spectrum, T_A=25°C

1. Pure White



2. Warm White

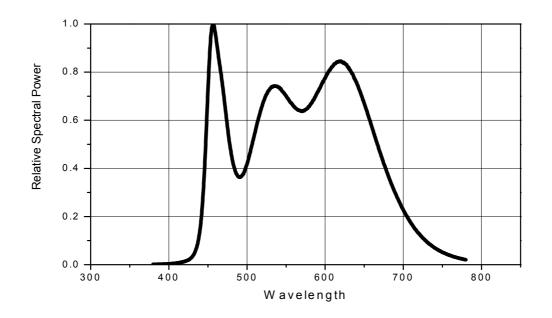


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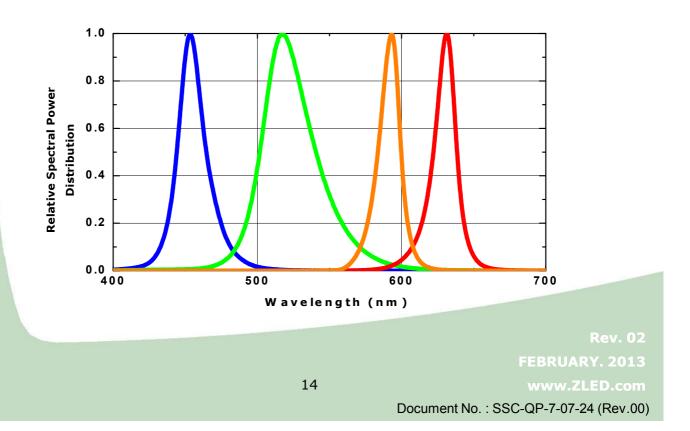


Color Spectrum, T_A=25°C

3. Natural White



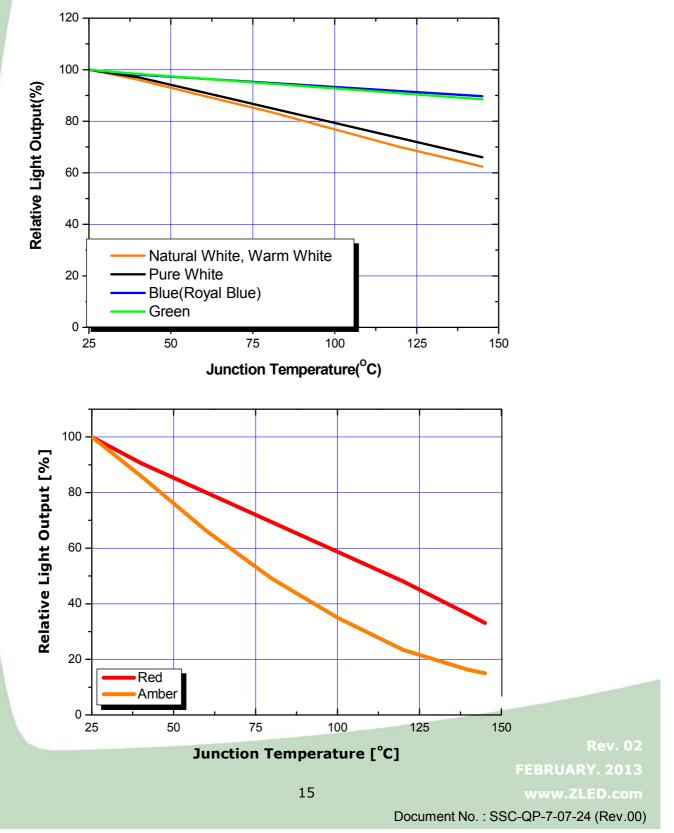
4. Red, Amber, Green, Blue(Royal Blue)





Junction Temperature Characteristics

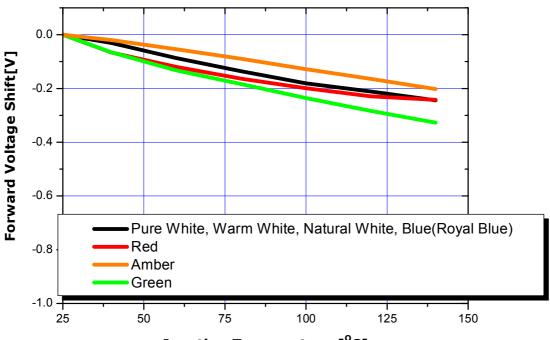






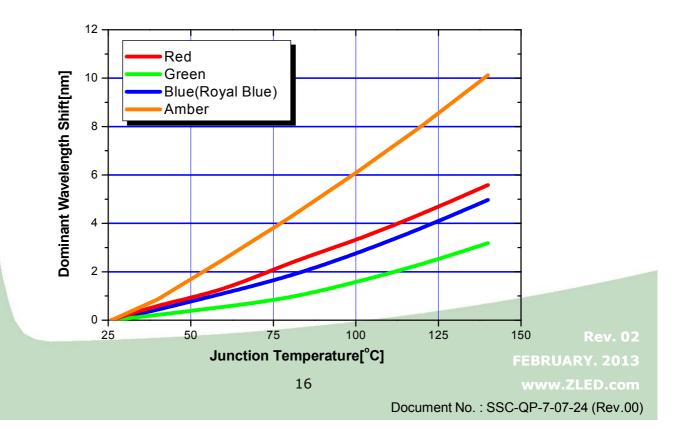
Junction Temperature Characteristics

2. Forward Voltage Shift vs. Junction Temperature at $I_{\rm F}{=}350\text{mA}$



Junction Temperature [^oC]

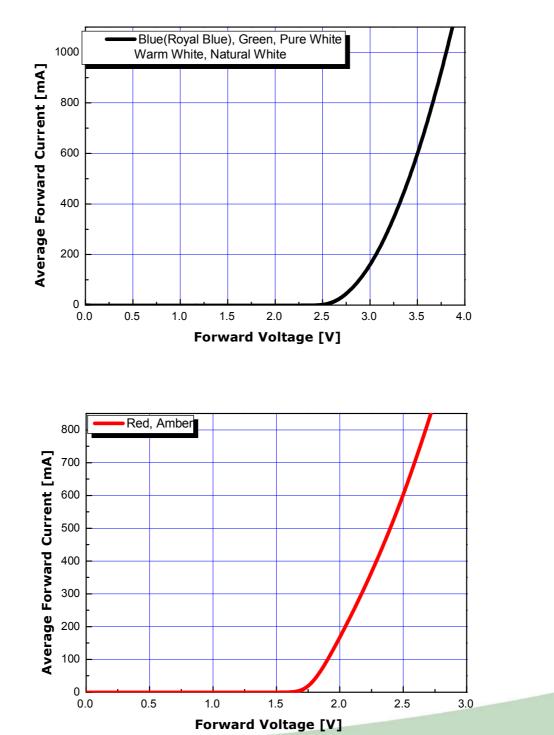






Forward Current Characteristics

1. Forward Voltage vs. Forward Current , $T_A{=}25\ ^{o}c$

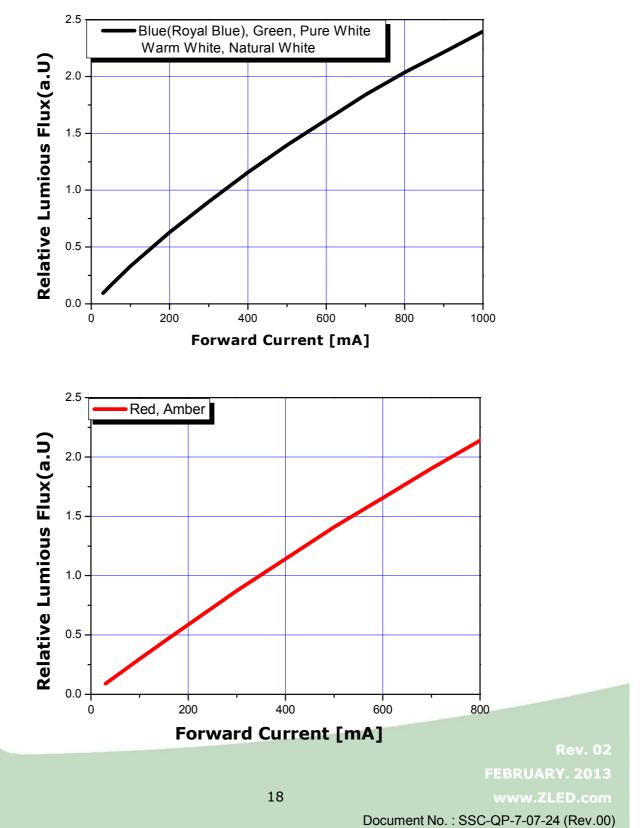


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Forward Current Characteristics

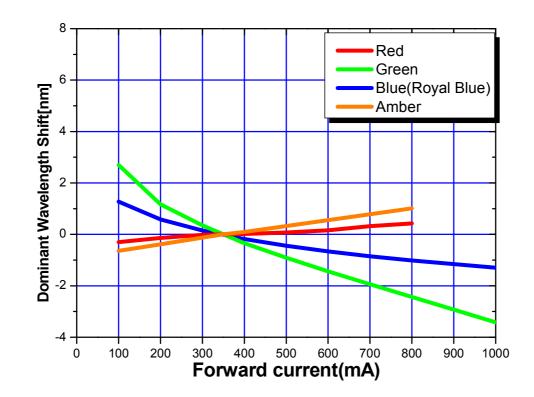
2. Forward Current vs. Normalized Relative Luminous Flux, T_A =25 °c





Forward Current Characteristics

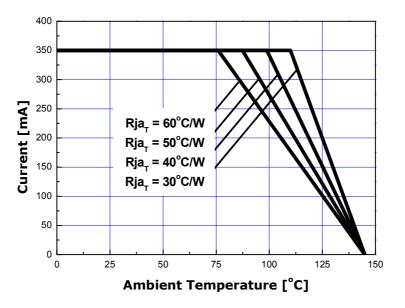
3. Forward Current vs Wavelength Shift, $T_A = 25 \text{ °c}$



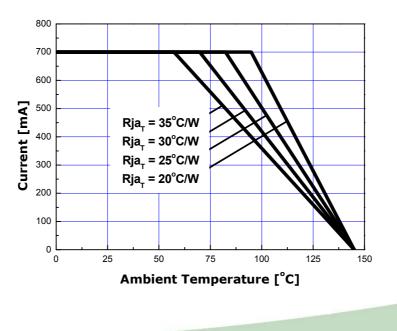


Ambient Temperature vs Allowable Forward Current

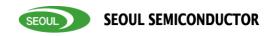
1-1. Pure White, Warm White, Natural White, Green, Blue(Royal Blue) (T_{JMAX} = 145 °C, @350mA)



1-2. Pure White, Warm White, Natural White, Green, Blue(Royal Blue) (T_JMAX = 145 °C, @700mA)

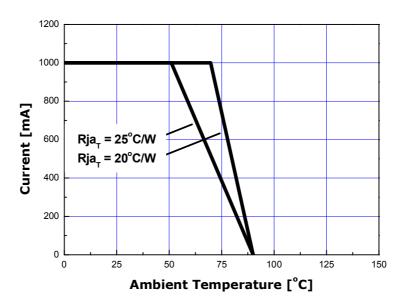


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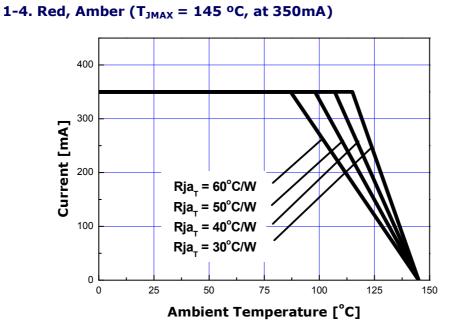
Ambient Temperature vs Allowable Forward Current

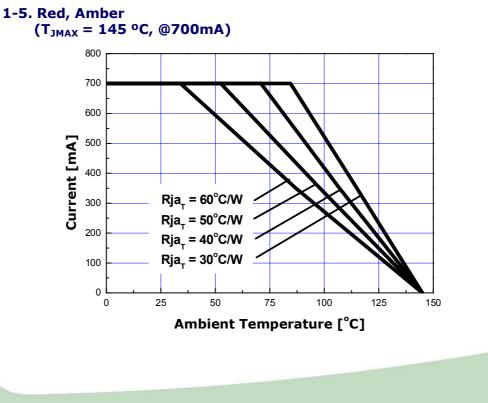






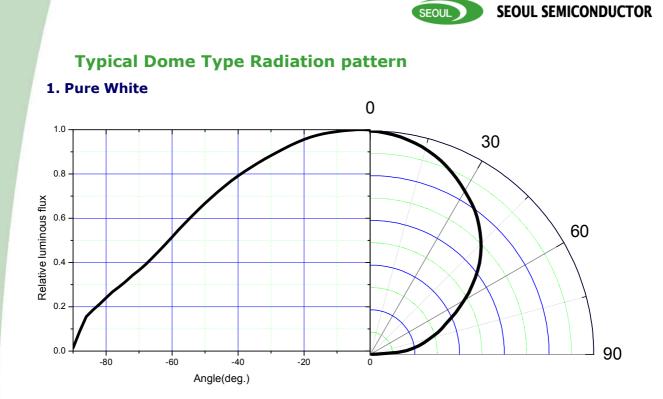
Ambient Temperature vs Allowable Forward Current



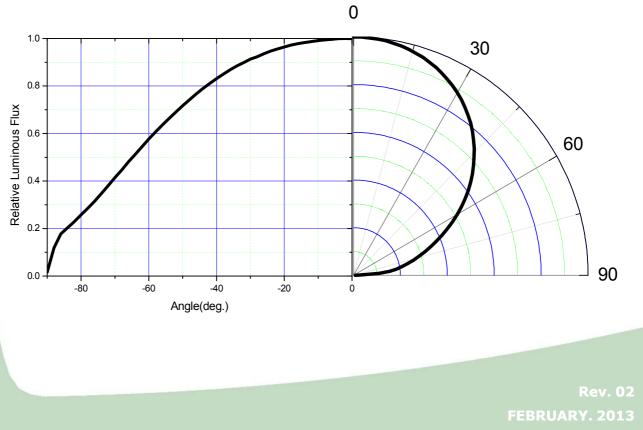


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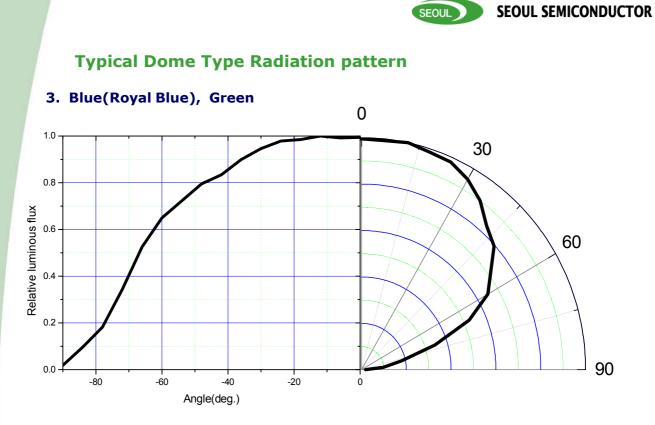
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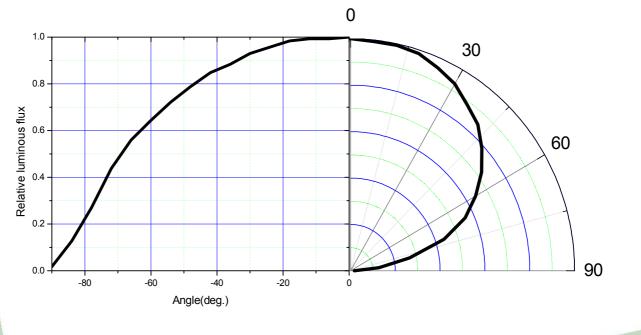
2. Warm White, Natural White



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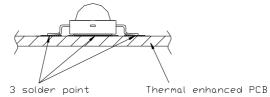
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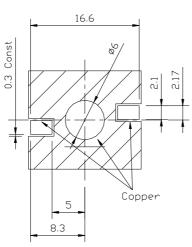
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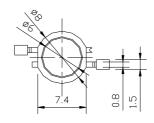


Recommended Solder pad

1. Solder pad

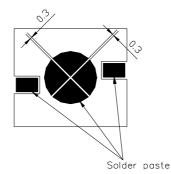






<Rear view>

2. Solder paste pattern



Note :

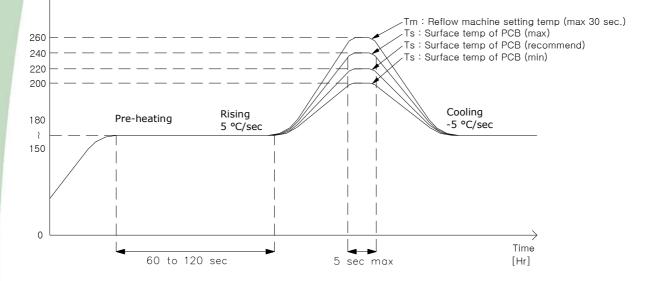
1. All dimensions are in millimeters (tolerance : ± 0.2)

2. Scale none

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



3. Reflow Soldering Conditions / Profile



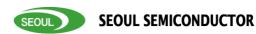
4. Hand Soldering conditions Lead : Not more than 3 seconds @MAX280℃ Slug : Use a thermal-adhesives

* Caution

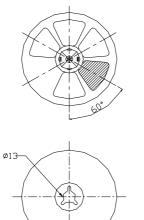
- **1**. Reflow soldering should not be done more than one time.
- 2. Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, suitable tools have to be used.
- 3. Die slug is to be soldered.
- 4. When soldering, do not put stress on the LEDs during heating.
- 5. After soldering, do not warp the circuit board.
- 6. Recommend to use a convection type reflow machine with 7 \sim 8 zones.

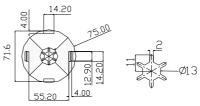
Rev. 02

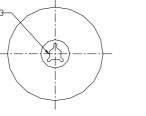
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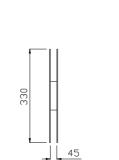


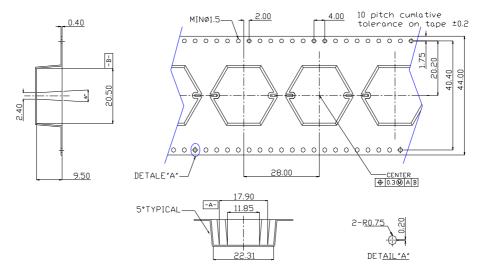
PCB Type Reel Packaging











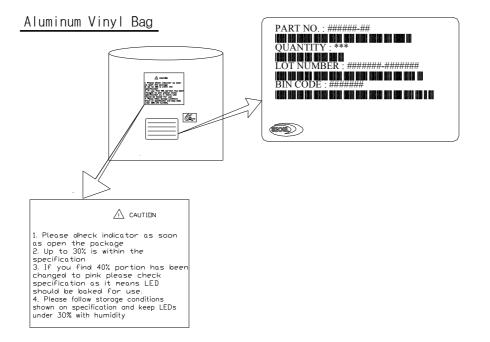
Note :

- 1. The number of loaded products in the reel is 200ea
- 2. All dimensions are in millimeters (tolerance : ± 0.2)
- 3. Scale none

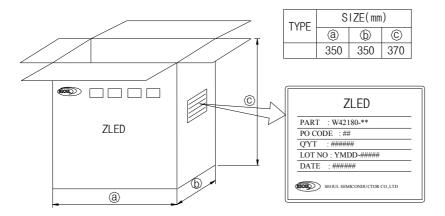
*The appearance and specifications of the product may be changed for improvement without notice.



Packaging Structure



Outer Box



Note :

- 1. 6~10 reels are loaded in box
- 2. Scale none
- 3. For more information about binning and labeling, refer to the Application Note 1



precaution for use

Storage

To avoid the moisture penetration, we recommend storing Z Power LEDs in a dry box (or desiccator) with a desiccant . The recommended storage conditions are Temperature 5 to 30 degrees Centigrade. Humidity 50% maximum.

Precaution after opening packaging

However LED is correspond SMD, when LED be soldered dip, interfacial separation may affect the light transmission efficiency, causing the light intensity to drop. Attention in followed.

- a. Soldering should be done right after opening the package(within 24Hrs).
- b. Keeping of a fraction
 - Sealing
 - Temperature : 5 \sim 40 $^\circ\!\! C$ Humidity : less than 30%
- c. If the package has been opened more than 1week or the color of desiccant changes, components should be dried for 10-12hr at $60\pm5\,$ °C
- Any mechanical force or any excess vibration shall not be accepted to apply during cooling process to normal temp. after soldering.
- Please avoid rapid cooling after soldering.
- Components should not be mounted on warped direction of PCB.
- Anti radioactive ray design is not considered for the products listed here in.
- Gallium arsenide is used in some of the products listed in this publication. These products are dangerous if they are burned or shredded in the process of disposal. It is also dangerous to drink the liquid or inhale the gas generated by such products when chemically disposed.
- This device should not be used in any type of fluid such as water, oil, organic solvent and etc. When washing is required, IPA(Isopropyl Alcohol) should be used.
- When the LEDs are illuminating, operating current should be decided after considering the package maximum temperature.
- LEDs must be stored to maintain a clean atmosphere. If the LEDs are stored for 3 months or more after being shipped from SSC, a sealed container with a nitrogen atmosphere should be used for storage.
- The appearance and specifications of the product may be modified for improvement without notice.
- Long time exposure of sunlight or occasional UV exposure will cause lens discoloration.
- The slug is connected to the anode. Therefore, we recommend to isolate the heat sink.
- Attaching LEDs, don't use adhesives to generate organic vapor.

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Handling of Silicone resin LEDs

Z-Power LED is encapsulated by silicone resin for the highest flux efficiency. Notes for handling of Silicone resin Z-Power LEDs

- Avoid touching silicone resin parts especially by sharp tools such as Pincette(Tweezers)
- Avoid leaving fingerprints on silicone resin parts.
- Dust sensitivity silicone resin need containers having cover for storage.
- When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the surface of the resin must be prevent.
- Please do not force over 2000 gf impact or pressure diagonally on the silicon lens. It will cause fatal damage of this product
- Please do not recommend to cover the silicone resin of the LEDs with other resin (epoxy, urethane, etc)

Please do not mold this product into another resin (epoxy, urethane, etc) and do not handle this product with acid or sulfur material in sealed space.

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