

# 白色 超薄型 チップ LED 1608

## White Chip LED

# SDDW

## Series



### 特長

超薄型チップLED  
(1.6 × 0.8 × 0.4)  
白色発光 (青色LED + 赤・緑2波長蛍光体)  
静電気耐圧 ±2kV (Min.)

### 用途

インジケータ  
照光スイッチ  
懐中電灯等の簡易光源  
ファインピッチディスプレイ光源

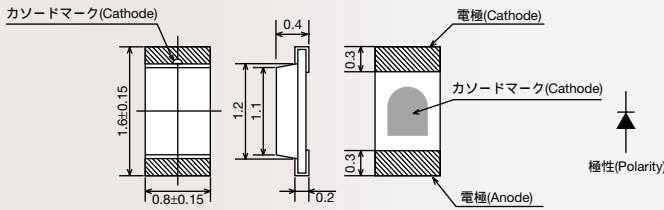
### Features

Ultra-thin chip LED  
(1.6 × 0.8 × 0.4)  
White light (blue LED + 2-wavelength  
[red and green] phosphor)  
ESD tolerance: ±2 kV (Min.)

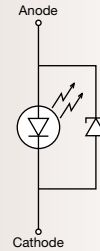
### Applications

Indicators  
Illuminated switches  
Electric torch light sources  
Fine-pitch display light sources

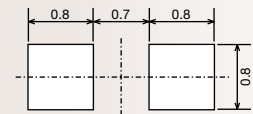
### 外形寸法図 Package Dimensions



### 回路図 Circuit Diagram



### 推奨はんだ付けパターン Recommended soldering pattern



単位 Unit : mm

### 絶対最大定格 (Ta=25 ) Absolute Maximum Ratings

許容損失 ( mW ) Power Dissipation	順方向電流 ( mA ) DC Forward Current	パルス順方向電流 ( mA ) Peak Pulse Forward Current	逆方向電流 ( mA ) Reverse Current	動作温度 ( ) Operating Temperature Range	保存温度 ( ) Storage Temperature Range
80	20	100	120	- 35 ~ + 85	- 40 ~ + 100

: Duty 1/10 Pulse Width 10ms

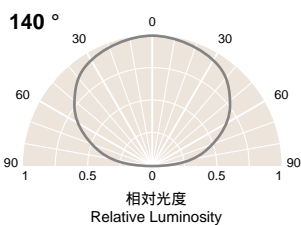
保存温度は、チップLED単体 ( 梱包部材は除く ) の温度です。

The above storage temperature range is specified only for chip LEDs (packing materials excluded).

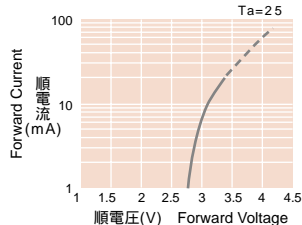
### 電気的・光学的特性 (Ta=25 ) Electro-Optical Characteristics

発光色 Emitting Color	品番 Part No.	指向角 Typical Viewing Angle 2 / 1/2	基準電流 ( mA ) Standard Current	光度 ( mcd ) Luminosity		順方向電圧 ( V ) Forward Voltage		逆方向電流 ( mA ) Reverse Current Max. (Vr=1.0V)	色度座標 Chromatic Coordinates			
				Typ.	Max.	Typ.	Max.		Min.	Typ.	Max.	
白 White	<b>SDDW16040B1</b>	140 °	10	53		3.1	3.5	120	x=	0.257	0.292	0.328
									y=	0.251	0.304	0.358

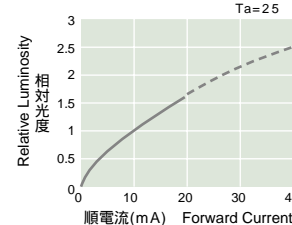
### 指向代表特性 Directive Characteristics



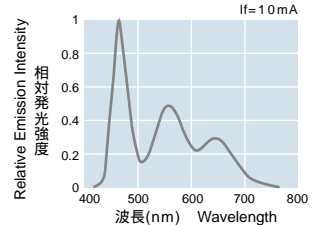
### 順電流-順電圧特性 Forward Current vs. Forward Voltage



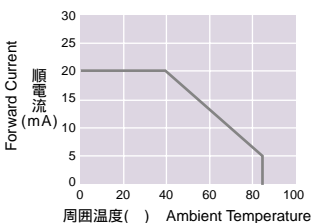
### 相対光度-順電流特性 Relative Luminosity vs. Forward Current



### 発光スペクトル Relative Emission Intensity vs. Wavelength



### 順電流-周囲温度特性 Forward Current vs. Ambient Temperature



# 白色 超薄型 チップ LED 1608

White Chip LED



Low Voltage

# SDDW

Series



## 特長

超薄型チップLED  
(1.6 × 0.8 × t0.4)  
白色発光 (青色LED + 赤・緑2波長蛍光体)  
低電圧駆動  
静電気耐圧 ±2kV (Min.)

## 用途

携帯電話のキーパッド等  
低駆動電圧製品  
電池 (低電圧) 駆動等による光源

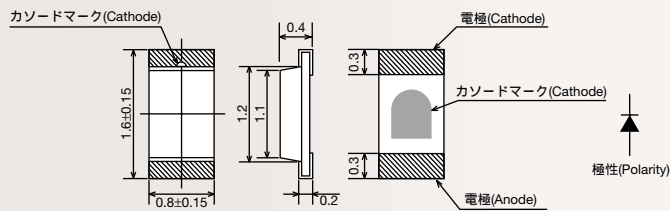
## Features

Ultra-thin chip LED  
(1.6 × 0.8 × t0.4)  
White light (blue LED + 2-wavelength [red and green] phosphor)  
Low voltage operated  
ESD tolerance: ±2 kV (Min.)

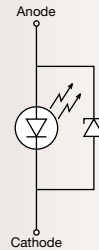
## Applications

Mobile phone key pads, etc  
Low voltage drive products  
Battery-powered (low voltage) light sources

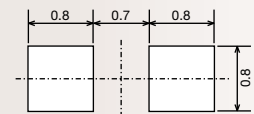
## 外形寸法図 Package Dimensions



## 回路図 Circuit Diagram



## 推奨はんだ付けパターン Recommended soldering pattern



単位 Unit : mm

## 絶対最大定格 (Ta=25) Absolute Maximum Ratings

許容損失 (mW) Power Dissipation	順方向電流 (mA) DC Forward Current	パルス順方向電流 (mA) Peak Pulse Forward Current	逆方向電流 (mA) Reverse Current	動作温度 ( ) Operating Temperature Range	保存温度 ( ) Storage Temperature Range
80	20	100	120	-35 ~ +85	-40 ~ +100

: Duty 1/10 Pulse Width 10ms

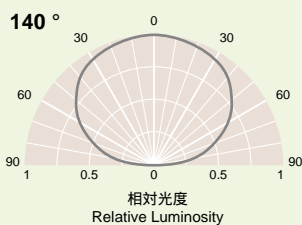
保存温度は、チップLED単体 (梱包部材は除く) の温度です。

The above storage temperature range is specified only for chip LEDs (packing materials excluded).

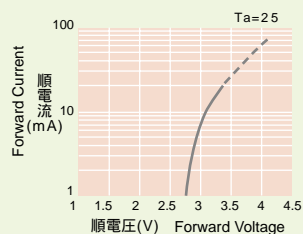
## 電気的・光学的特性 (Ta=25) Electro-Optical Characteristics Low Voltage

発光色 Emitting Color	品番 Part No.	指向角 Typical Viewing Angle 2 1/2	基準電流 (mA) Standard Current	光度 (mcd) Luminosity	順方向電圧 (V) Forward Voltage		逆方向電流 (mA) Reverse Current Max. (Vr=1.0V)	色度座標 Chromatic Coordinates		
				Typ.	Typ.	Max.		Min.	Typ.	Max.
白 White	<b>SDDW16041B1</b>	140°	5	23	2.85	3.2	120	x= 0.257	0.292	0.328
								y= 0.251	0.304	0.358

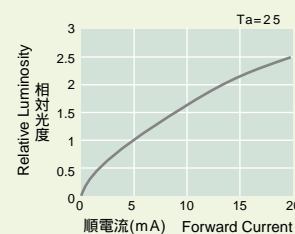
### 指向代表特性 Directive Characteristics



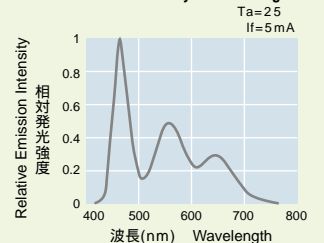
### 順電流-順電圧特性 Forward Current vs. Forward Voltage



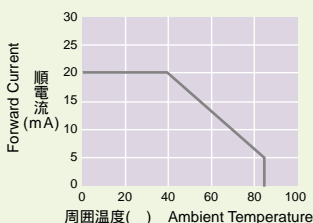
### 相対光度-順電流特性 Relative Luminosity vs. Forward Current



### 発光スペクトル Relative Emission Intensity vs. Wavelength



### 順電流-周囲温度特性 Forward Current vs. Ambient Temperature



# 単色 超薄型 チップ LED 1608

## Monochrome Chip LED

# SDD/SDC

## Series



SDD

SDC

### 特長

超薄型チップLED  
(1.6 × 0.8 × t0.4)  
静電気耐圧 ±2kV (Min.)

### 用途

インジケータ  
照光スイッチ  
懐中電灯等の簡易光源  
ファインピッチディスプレイ光源

### Features

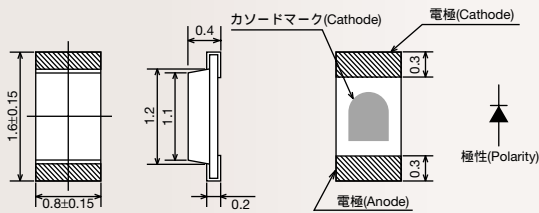
Ultra-thin chip LED  
(1.6 × 0.8 × t0.4)  
ESD tolerance: ±2 kV (Min.)

### Applications

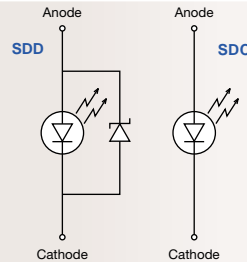
Indicators  
Illuminated switches  
Electric torch light sources  
Fine-pitch display light sources

### 外形寸法図

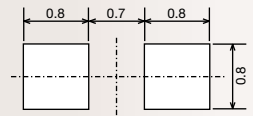
### Package Dimensions



### 回路図 Circuit Diagram



### 推奨はんだ付けパターン Recommended soldering pattern



単位 Unit : mm

### 絶対最大定格 (Ta=25) Absolute Maximum Ratings

許容損失 (mW) Power Dissipation	順方向電流 (mA) DC Forward Current	パルス順方向電流 (mA) Peak Pulse Forward Current	逆方向電流 (mA) Reverse Current	逆方向電圧 (V) Reverse Voltage	動作温度 ( ) Operating Temperature Range	保存温度 ( ) Storage Temperature Range
80	20	100	120	-	-35 ~ +85	-40 ~ +100
	30		-	5		

: Duty 1/10 Pulse Width 10ms

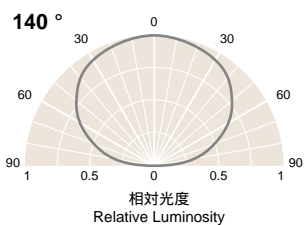
保存温度は、チップLED単体 (梱包部材は除く) の温度です。

The above storage temperature range is specified only for chip LEDs (packing materials excluded).

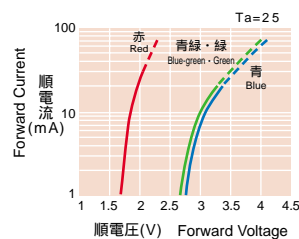
### 電気的・光学的特性 (Ta=25) Electro-Optical Characteristics

発光色 Emitting Color	品番 Part No.	指向角 Typical Viewing Angle 2 1/2	基準電流 (mA) Standard Current	光度 (mcd) Luminosity	順方向電圧 (V) Forward Voltage		逆方向電流 (mA) Reverse Current	逆方向電流 (μA) Reverse Current	ドミナント波長 (nm) Dom. Wavelength		
				Typ.	Typ.	Max.	Max. (Vr=1.0V)	Max. (Vr=5.0V)	Min.	Typ.	Max.
青 Blue	SDDB16000A1	140°	10	37	3.1	3.5	120	-	460	470	480
青緑 Blue-green	SDDC16000A1			85	3.0				490	500	510
緑 Green	SDDG16000A1			100	3.0	520			530	540	
赤 Red	SDCR16000A1			45	1.8	2.3			-	50	611

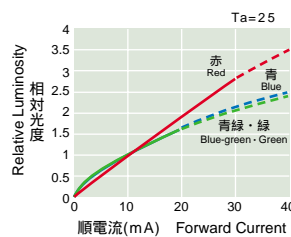
### 指向代表特性 Directive Characteristics



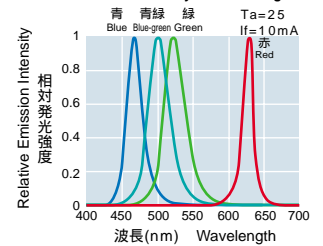
### 順電流-順電圧特性 Forward Current vs. Forward Voltage



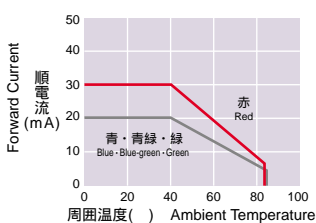
### 相対光度-順電流特性 Relative Luminosity vs. Forward Current



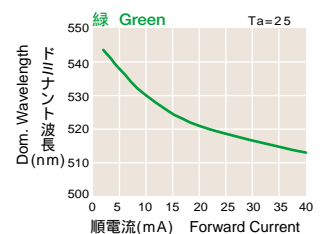
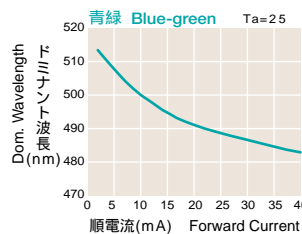
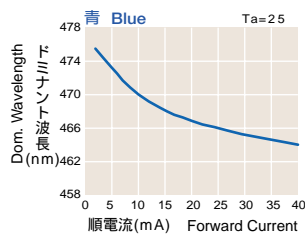
### 発光スペクトル Relative Emission Intensity vs. Wavelength



### 順電流-周囲温度特性 Forward Current vs. Ambient Temperature



### ドミナント波長-順電流特性 Dom. Wavelength vs. Forward Current



# 単色 超薄型 チップ LED 1608

Monochrome Chip LED

SDD Series

Low Voltage



## 特長

超薄型チップLED  
(1.6 × 0.8 × t0.4)  
低電圧駆動  
静電気耐圧 ±2kV (Min.)

## 用途

携帯電話のキーボード等  
低駆動電圧製品  
電池 (低電圧) 駆動等による光源

## Features

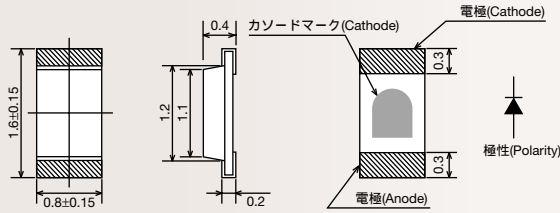
Ultra-thin chip LED  
(1.6 × 0.8 × t0.4)  
Low voltage operated  
ESD tolerance: ±2 kV (Min.)

## Applications

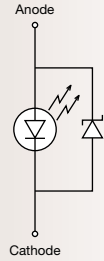
Cellular phone key pads  
Low voltage drive products  
Battery-powered (low voltage) light sources

## 外形寸法図

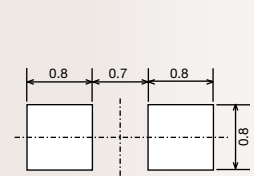
## Package Dimensions



## 回路図



## 推奨はんだ付けパターン



単位 Unit : mm

## 絶対最大定格 (Ta=25 ) Absolute Maximum Ratings

許容損失 (mW) Power Dissipation	順方向電流 (mA) DC Forward Current	パルス順方向電流 (mA) Peak Pulse Forward Current	逆方向電流 (mA) Reverse Current	動作温度 ( ) Operating Temperature Range	保存温度 ( ) Storage Temperature Range
80	20	100	120	- 35 ~ + 85	- 40 ~ + 100

: Duty 1/10 Pulse Width 10ms

保存温度は、チップLED単体 (梱包材は除く) の温度です。

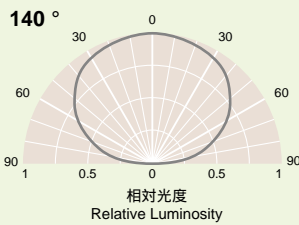
The above storage temperature range is specified only for chip LEDs (packing materials excluded).

## 電氣的・光学的特性 (Ta=25 ) Electro-Optical Characteristics

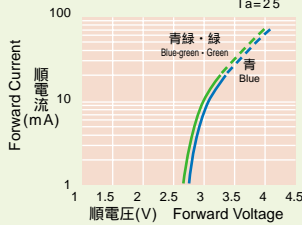
Low Voltage

発光色 Emitting Color	品番 Part No.	指向角 Typical Viewing Angle 2 1/2	基準電流 (mA) Standard Current	光度 (mcd) Luminosity		順方向電圧 (V) Forward Voltage		逆方向電流 (mA) Reverse Current Max. (Vr=1.0V)	ドミナント波長 (nm) Dom. Wavelength		
				Typ.	Typ.	Max.	Max.		Min.	Typ.	Max.
青 Blue	Sddb16001A1	140 °	5	18	2.85	3.0	120	460	470	480	
青緑 Blue-green	Sddc16001A1			42				490	500	510	
緑 Green	Sddg16001A1			49				520	530	540	

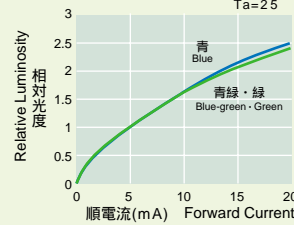
### 指向代表特性 Directive Characteristics



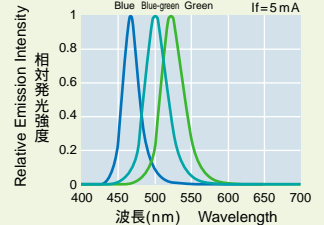
### 順電流-順電圧特性 Forward Current vs. Forward Voltage



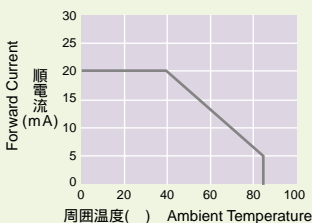
### 相対光度-順電流特性 Relative Luminosity vs. Forward Current



### 発光スペクトル Relative Emission Intensity vs. Wavelength



### 順電流-周囲温度特性 Forward Current vs. Ambient Temperature



### ドミナント波長-順電流特性 Dom. Wavelength vs. Forward Current

