



SE-2835G2-X-3V060



Features

- Emitting Color: White
- Lens Type: Yellow Diffused
- Device Outline: 3.5x2.8x0.8 mm
- HBM ESD: Class 2
- Pb-Free
- RoHS compliant: RoHS

Application

Backlight of Mobile, Machine Vision. LCD Display, Indoor Lighting

Parameter	Symbol	Value	Units
Viewing Angle	(Typ.) $2\theta_{1/2}$	120	Degree
Thermal resistance	-	30	$^{\circ}\text{C}/\text{W}$
CRI	-	>80	-
CCT	-	2,700 3,000 3,500 4,000 5,000 5,700 6,500	K
JEDEC Moisture Sensitivity	-	Level 2a Floor Life Conditions: $\leq 30^{\circ}\text{C} / 60\% \text{RH}$ Soak Requirements(Standard) Time (hours): 120+1/-0 Conditions: $60^{\circ}\text{C} / 60\% \text{RH}$	-

Notes:

1. $2\theta_{1/2}$ is the off-axis angle where the luminous intensity is half of the axial luminous intensity.
2. Color Rendering index CRI tolerance: ± 2 .
3. CIE_x/y tolerance: ± 0.005 .

Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Units
DC Forward Current	I_F	90	mA
Pulse Forward Current ($t_p \leq 100\mu\text{s}$, Duty cycle=0.25)	I_{pulse}	120	mA
Reverse Current	I_R	10	μA
Reverse Voltage	V_R	5	V
LED Junction Temperature	T_J	125	$^{\circ}\text{C}$
Operating Temperature	-	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	-	-40 ~ +125	$^{\circ}\text{C}$
ESD Sensitivity (HBM)	V_B	2,000	V
Soldering Temperature	T_s	Reflow Soldering : 255~260 $^{\circ}\text{C}/10\sim 30\text{sec}$ Manual Soldering : 350 $^{\circ}\text{C}/3\text{sec}$	

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum at all time.
2. LEDs are not designed to be driven in reverse bias.

Luminous Flux Characteristics, $I_f=60\text{mA}$ and $T_j=25^\circ\text{C}$

Color	Group	Min. Luminous Flux(lm)	Max. Luminous Flux(lm)	Forward Current (mA)	Order Code		
Cool White 5000 K	20	20	22	60	SE-2835G2-5-3V060		
	22	22	24				
	24	24	26				
	26	26	28				
Neutral White 4000 K	20	20	22		60	SE-2835G2-4-3V060	
	22	22	24				
	24	24	26				
	26	26	28				
Warm White 3000 K	20	20	22			60	SE-2835G2-3-3V060
	22	22	24				
	24	24	26				
	26	26	28				

Note:

The luminous flux performance is guaranteed within published operating conditions.

Tolerance on flux measurements : $\pm 10\%$

Voltage Bin Structure

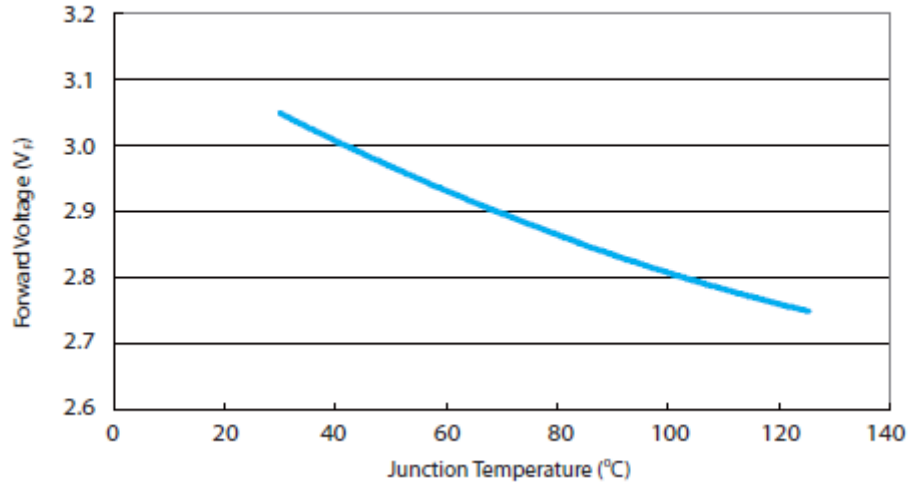
Group	Min. Voltage (V)	Max. Voltage (V)
VB1	2.9	3.0
VC1	3.0	3.1
VA2	3.1	3.2
VB2	3.2	3.3
VC2	3.3	3.4
VA3	3.4	3.5
VB3	3.5	3.6

Note:

Forward voltage measurement allowance is $\pm 0.06\text{V}$.

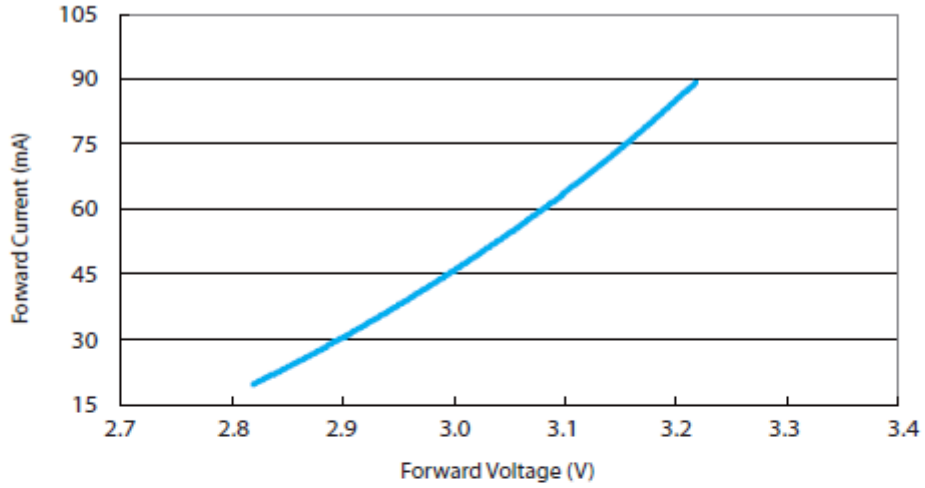


Forward Voltage vs. Junction Temperature

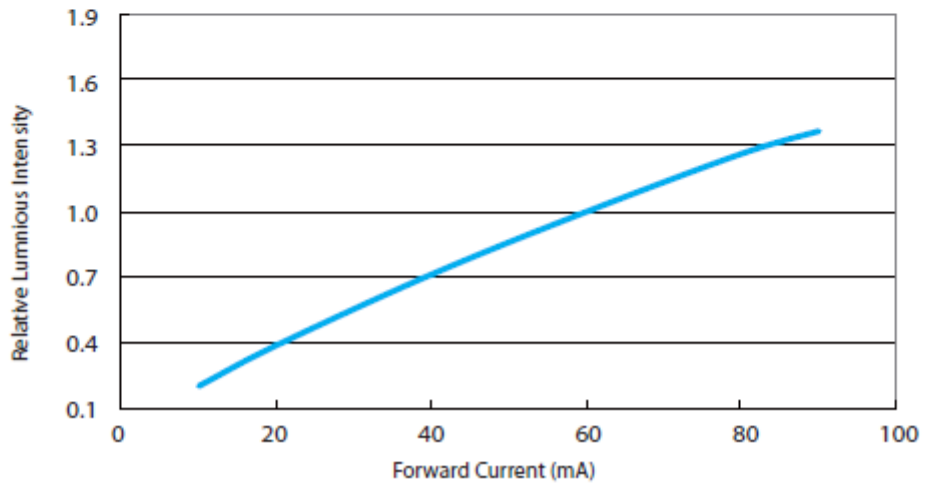




Forward Current vs. Forward Voltage

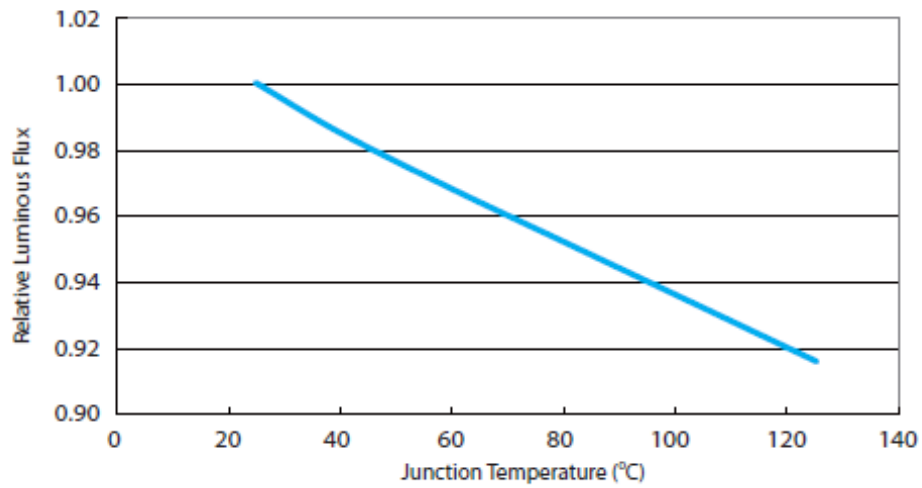


Relative Luminous Intensity vs. Forward Current





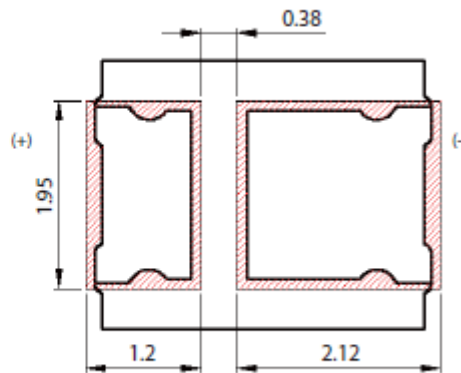
Relative Luminous Flux vs. Junction Temperature



Circuit



Solder Pad



- Notes:
1. All dimensions are measured in mm.
2. Tolerance : ± 0.20 mm



SUNSHINE ELECTRONICS TRADING LIMITED

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Item	Quantity	Total	Dimensions(mm)
Reel	4,000pcs	4,000pcs	R=178
Starting with 150pcs empty, and 150pcs empty at the last			

