



Product Features

- Certified line for export
- High-power white LED
- Single Watt / Single crystal
- No lens

Applications

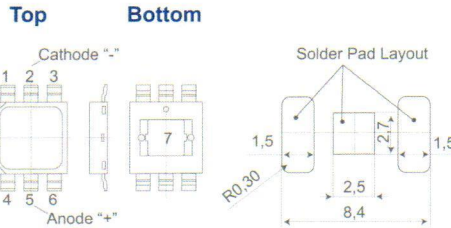
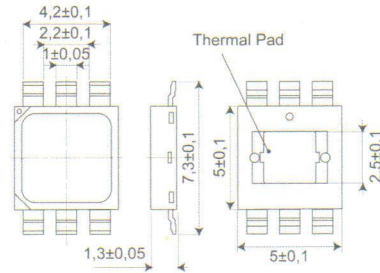
- Indoor general lighting (office lightings, bulbs, etc.)
- Indoor decorative lighting
- Small flood lights, spot lights
- Small signs

SVL03P1-FX-XX-A010

- FX** Class of Luminous Flux (number is equal to typical output)
- XX** Typical value of Correlated Color Temperature D1-D8 (other color variants available through special order)

General Characteristics

Parameters	Values
Size (mm)	5.0 x 5.0 (7.3) x 1.3
Available in White	2600 K to 7000 K (CCT)
Forward Current	350mA
Typical Forward Voltage	3.2 V
Viewing Angle	120°
RoHS-Compliant	Yes
lm maintenance @ 50K hours	> 70%
Unlimited floor life at ≤30°C/85% RH	



Flux Characteristics

Thermal Pad Temperature=25°C

Color	CCT Range, K	Bin	Luminous Flux, lm @ 350mA		Luminous Efficacy @ 350mA (lm/W)	CRI
			Min	Max		
Cool White	5300 - 7000	F130	125	135	118	75
		F120	115	125	109	
		F110	105	115	100	
		F100	95	105	90	
		F90	85	95	81	
Neutral White	3700 - 5300	F120	115	125	109	75
		F110	105	115	100	
		F100	95	105	90	
		F90	85	95	81	
		F80	75	85	72	
Warm White	2600 - 3700	F110	105	115	100	80
		F100	95	105	90	
		F90	85	95	81	
		F80	75	85	72	
		F70	65	75	63,6	

Electrical Characteristics

Thermal Pad Temperature=25°C

Color White	Forward Voltage			Typical Thermal Resistance Junction to Thermal Pad (°C/W)
	Min	Typ	Max	
Cool	2.8	3.2	3.6	7
Neutral	2.8	3.2	3.6	7
Warm	2.8	3.2	3.6	7

- 1 Correct handling of the product is required to ensure the product is not damaged
- 2 All dimensions are in millimeters
- 3 The Thermal Pad is electrically isolated from the Anode and Cathode contact pads

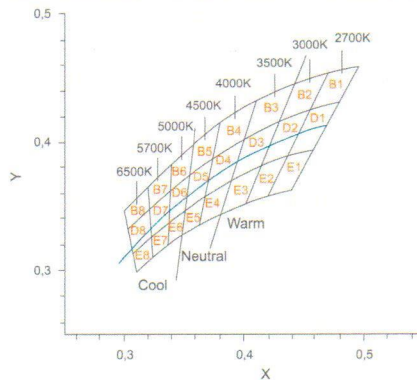
SVETLED maintains a tolerance of ±0.06V on forward voltage measurements.

Bin Coordinates

Color	Range	X	Y
Warm	D1 2700 K	0,4813	0,4319
		0,4562	0,4260
		0,4373	0,3893
		0,4593	0,3944
	D2 3000 K	0,4562	0,4260
		0,4299	0,4165
		0,4147	0,3814
	D3 3500 K	0,4299	0,4165
		0,3996	0,4015
0,3889		0,3690	
Neutral	D4 4000 K	0,4006	0,4044
		0,3736	0,3874
		0,3670	0,3578
		0,3898	0,3716
	D5 4500 K	0,3736	0,3874
		0,3548	0,3736
		0,3512	0,3465
	D6 5000 K	0,3670	0,3578
		0,3551	0,3760
0,3376		0,3616	
Cool	D7 5700 K	0,3376	0,3616
		0,3207	0,3462
		0,3222	0,3243
		0,3366	0,3369
	D8 6500 K	0,3205	0,3481
		0,3028	0,3304
		0,3068	0,3113
		0,3221	0,3261
		0,3221	0,3261

D - Range bins are available from inventory. Others may be special ordered.

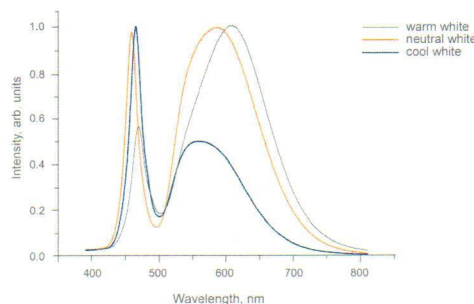
Bin Structure



Bins D1,D2,D3,D4,D5,D6,D7,D8 correspond to the ANSI NEMA ANSLG C78.377-2008 standard.

Wavelength Characteristics

Thermal Pad Temperature = 25°C



Absolute Maximum Ratings

Parameter	Maximum Performance
DC Forward Current (mA)	500
Peak Pulsed Forward Current (mA)	800
ESD Sensitivity	Class 2 JESD22-A114-B
LED Junction Temperature	125°C
Operating Case Temperature at 350mA	-40°C +110°C
Storage Temperature	-40°C +110°C
Soldering Temperature	JEDEC J-STD-020D.01 260°C
Allowable Reflow Cycles	2
Reverse Voltage	5V

Typical Spatial Radiation Pattern

