

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3528SURSUGC

Features

White package.
Wide viewing angle.
Computable with automatic placement equipment.
Pb-free



Descriptions

□ The 3528 series has wide viewing angle and optimized light coupling by inter reflector. This feature makes TOP LED ideal for light pipe application. The low current requirement makes this device ideal for portable equipment or any other application where power is at a premium.

Usage Notes:

Surge will damage the LED When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- □Automotive: backlighting in dashboard and switch.
- □Telecommunication: indicator and backlighting in telephone and fax.
- □Flat backlight for LCD, switch and symbol.
- □Light pipe application.

□General use.

Device Selection Guide

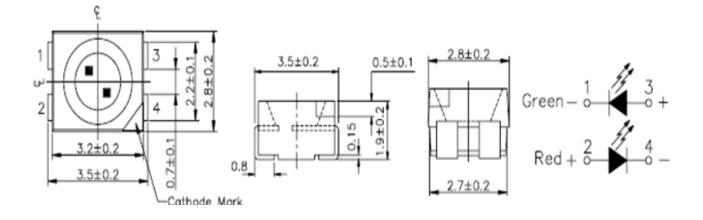
LED Part No.	Cł	nip	Lens Color	
	Emitte	d Color		
3528SURSUGC	Super Red	Super Green	Water clear	



TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3528SURSUGC

Package Dimensions



Notes:

[•]Other dimensions are in millimeters, tolerance is 0.25mm except being specified.

[•]Protruded resin under flange is 1.5mm Max LED.

Bare copper alloy is exposed at tie-bar portion after cutting.



TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3528SURSUGC

Electro-Optical Characteristics (Ta=25)

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	Red	100		160	mcd	IF=20mA (Note1)
		Green	190		280		
Viewing Angle	20 _{1/2}			120		Deg	(Note 2)
Peak Emission Wavelength	λр	Red	620		635	nm	IF=20mA
		Green	520		530		
Spectral Line Half-Width	Δλ			20		nm	IF=20mA
Forward Voltage	V _F	Red	1.9		2.4	v	IF=20mA
		Green	2.9		4.0		
Reverse Current	I _R				10	μA	VR=5V

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3528SURSUGC

APPLICATION NOTES:

1)Soldering:

① Manual soldering by soldering iron:

The use of a soldering iron of less than 25W is recommended and the

temperature of the iron must be kept at no higher than $300\Box$.

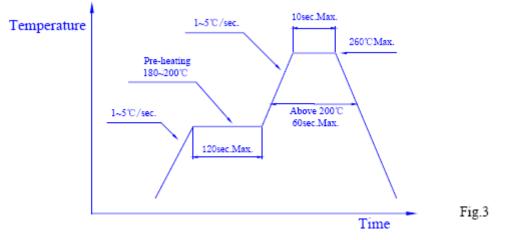
② Reflow soldering:

a. The temperature profile as shown in Fig.3 is recommended for soldering

SMD LED by the reflow furnace.

b. Care must be taken that the products be handled after their temperature

has dropped down to the normal room temperature after soldering.



2)Post solder cleaning:

When cleaning after soldering is needed, the following conditions must be adhered to.

© Cleaning solvents: Freon TF or equivalent or alcohol.

② Temperature: 50 □ Max.for 30 seconds or 30 □ Max.for 3 minutes



TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3528SURSUGC

③ Ultrasonic: 300W Max.

3) OTHERS:

a. Care must be taken not to cause stress to the epoxy resin portion of SMD

LED while it is exposed to the high temperature.

b. Care must be taken not to the rub the epoxy resin portion of SMD LED with

a hard or sharp edged article such as the sand blast and the metal hook as the epoxy resin is rather soft and liable to be damaged.