

AAA3528SURKSGC

Features

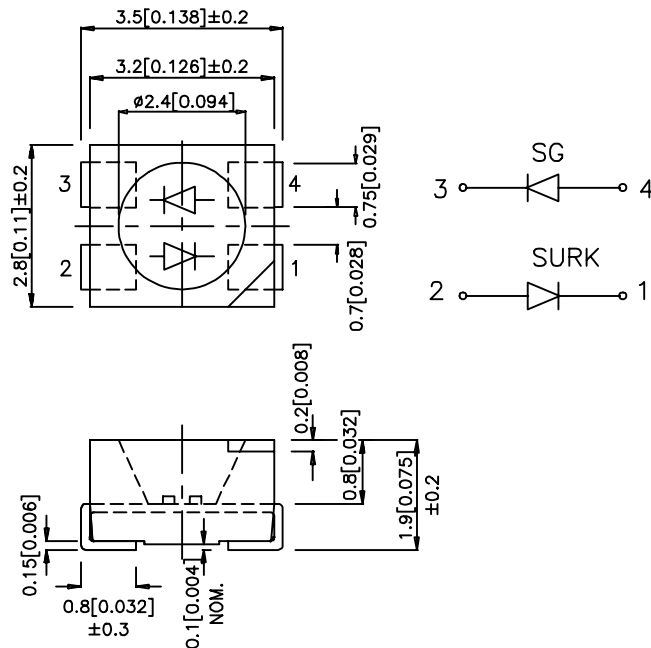
- BOTH CHIPS CAN BE CONTROLLED SEPARATELY.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 1500PCS / REEL.

Description

The Hyper Red source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
AAA3528SURKSGC	HYPER RED (InGaAlP)	WHITE DIFFUSED	80	200	120°
	SUPER BRIGHT GREEN (GaP)		12	30	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

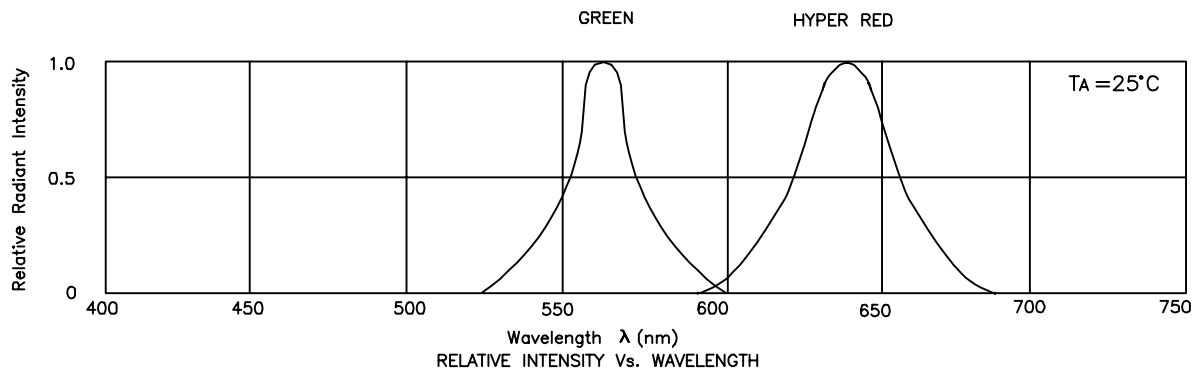
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Hyper Red Super Bright Green	640 568		nm	IF=20mA
λ _D	Dominate Wavelength	Hyper Red Super Bright Green	630 565		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Hyper Red Super Bright Green	28 30		nm	IF=20mA
C	Capacitance	Hyper Red Super Bright Green	35 15		pF	VR=0V;f=1MHz
V _F	Forward Voltage	Hyper Red Super Bright Green	1.95 2.2	2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

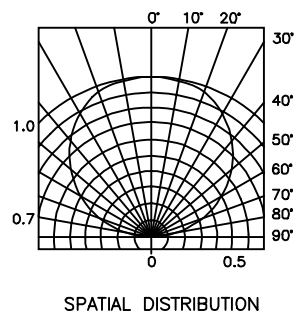
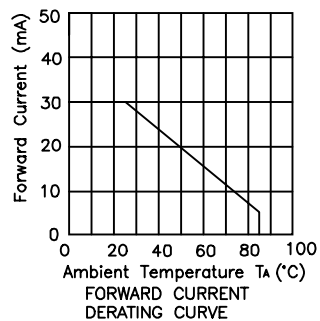
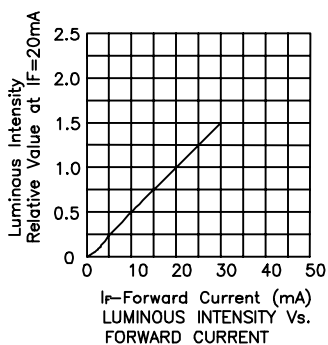
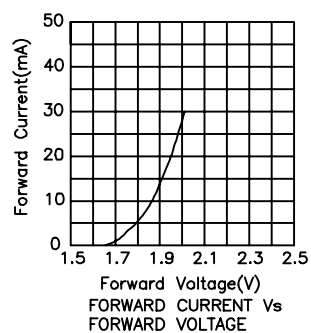
Parameter	Hyper Red	Super Bright Green	Units
Power dissipation	170	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	185	140	mA
Reverse Voltage	5	5	V
Operation/Storage Temperature	-40°C To +85°C		

Note:

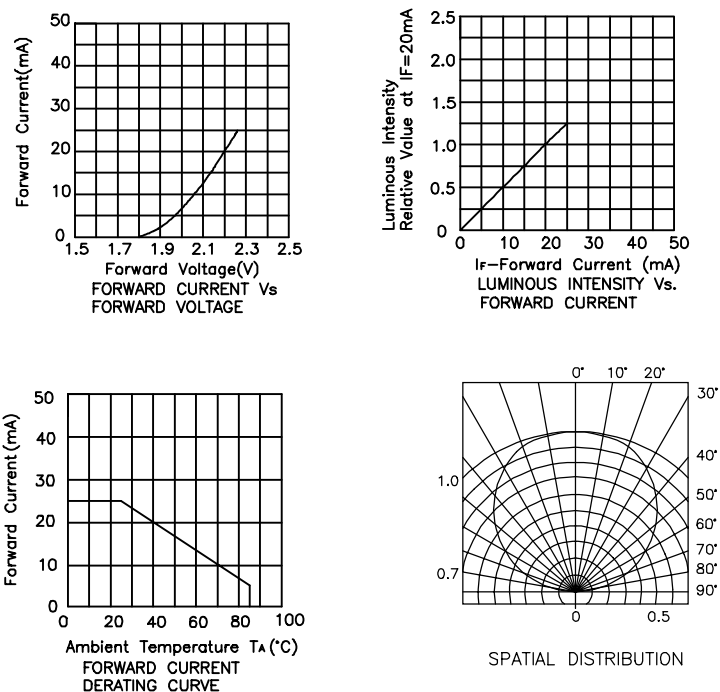
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



AAA3528SURKSGC Hyper Red

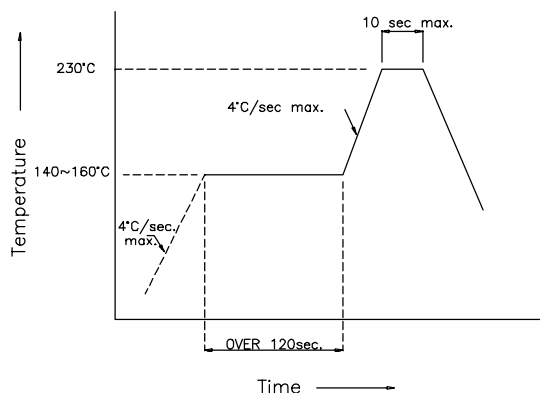


Super Bright Green

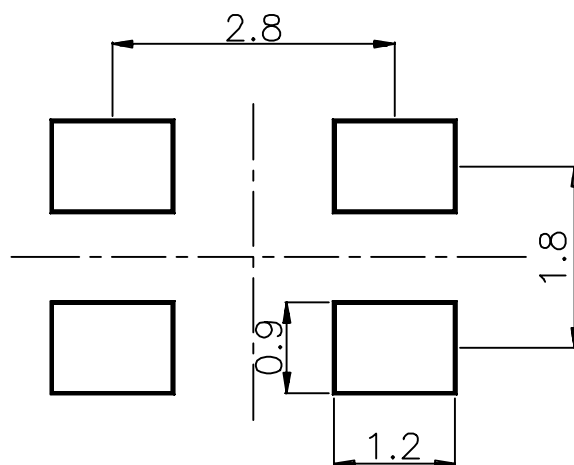


AAA3528SURKSGC SMT Reflow Soldering Instruction

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process."



AAA3528SURKSGC Recommended Soldering Pattern (Units : mm)



AAA3528SURKSGC Tape Specifications (Units : mm)

