

APF3236SURKVGPB HYPER RED
GREEN
BLUE

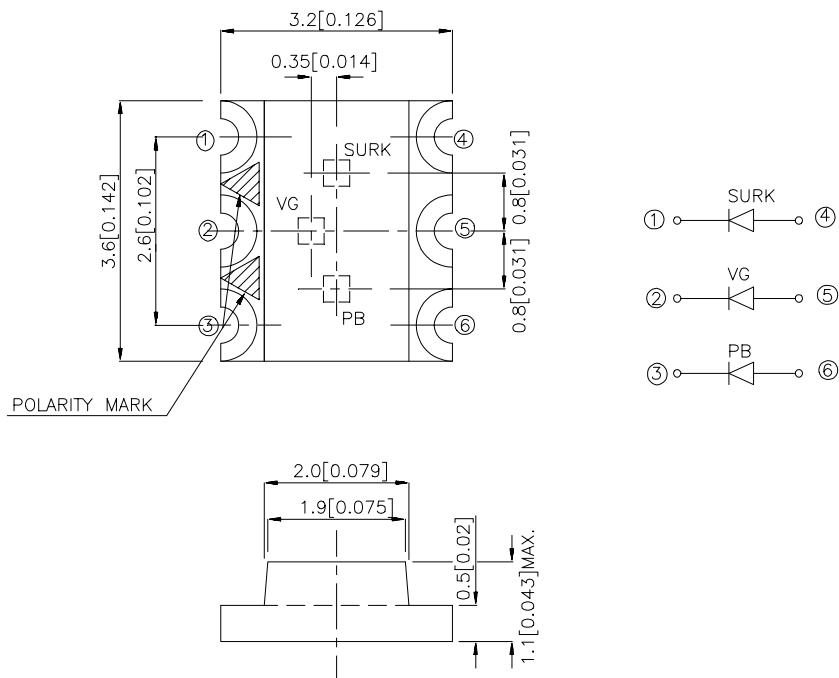
Features

- LOW POWER CONSUMPTION.
- 3.2mmx3.6mm SMT LED, 1.1mm THICKNESS.
- ONE RED, ONE GREEN AND ONE BLUE CHIPS IN ONE PACKAGE.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.
- PACKAGE : 1000PCS / REEL.

Description

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

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	IV (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
APF3236SURKVGPB	HYPER RED (InGaAIP)	WATER CLEAR	70	150	120°
	GREEN (InGaN)		50	100	
	BLUE (InGaN)		18	60	

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

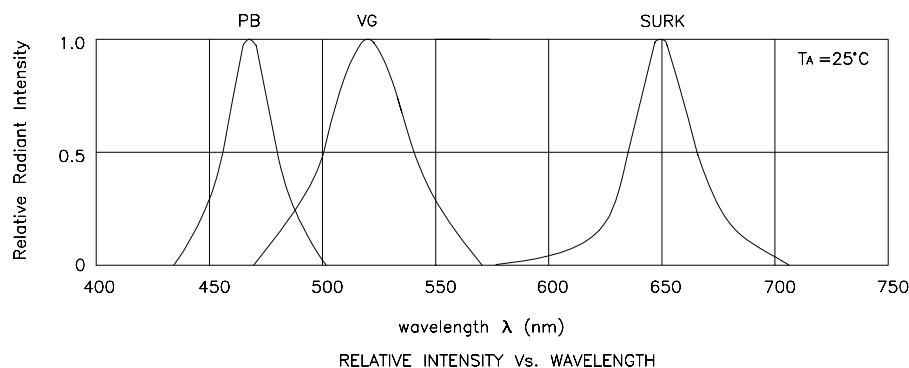
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Hyper Red Green Blue	650 520 468		nm	I _F =20mA
λ D	Dominate Wavelength	Hyper Red Green Blue	635 525 470		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green Blue	28 38 25		nm	I _F =20mA
C	Capacitance	Hyper Red Green Blue	35 45 65		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Hyper Red Green Blue	1.95 4.0 3.65	2.5 4.5 4.2	V	I _F =20mA
I _R	Reverse Current	All		10	uA	V _R = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Hyper Red	Green	Blue	Units
Power dissipation	170	105	102	mW
DC Forward Current	30	30	30	mA
Peak Forward Current [1]	185	150	160	mA
Reverse Voltage		5		V
Operating / Storage Temperature		-40°C To +85°C		

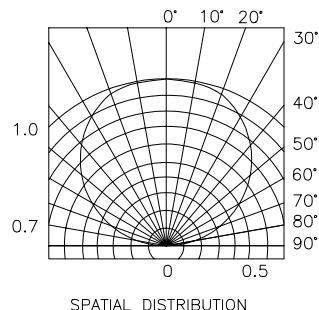
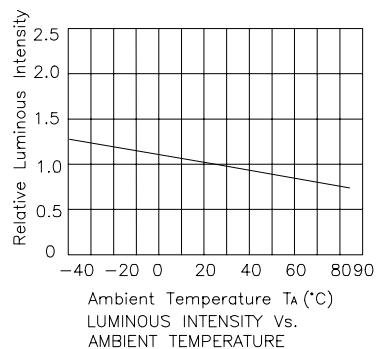
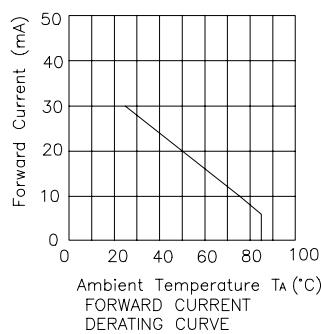
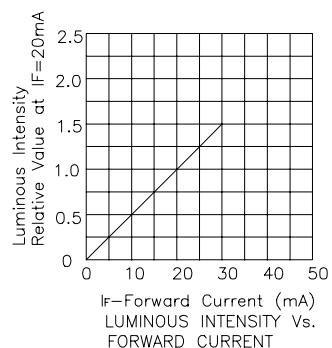
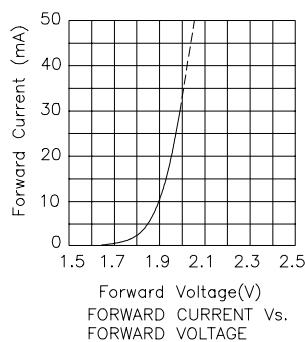
Note:

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

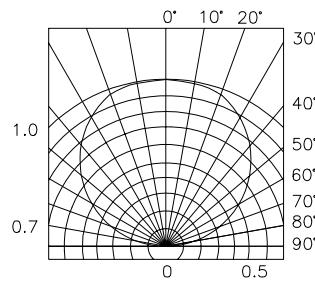
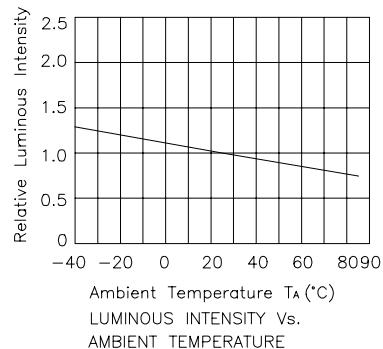
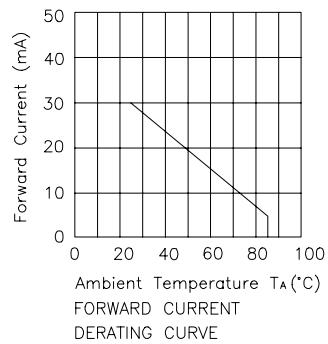
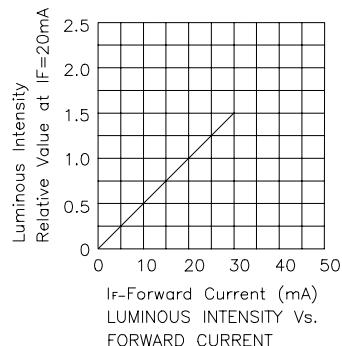
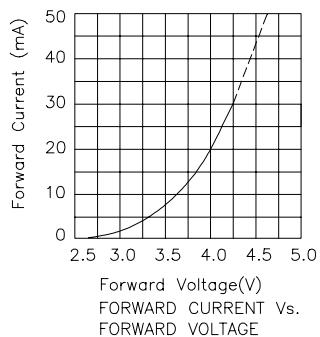


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Hyper Red

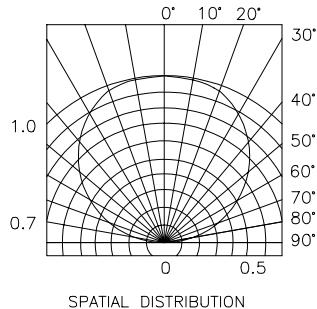
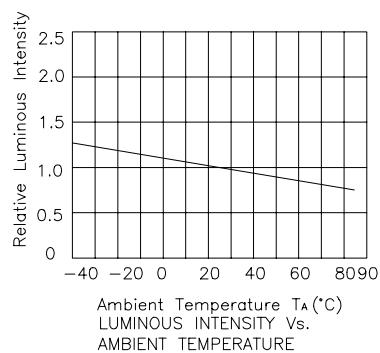
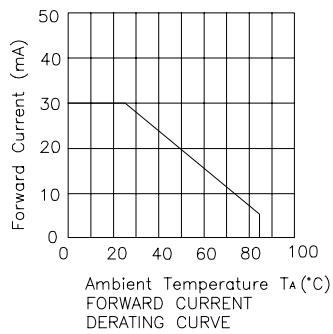
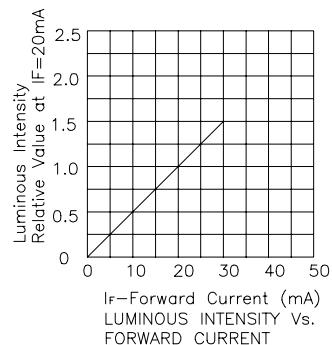
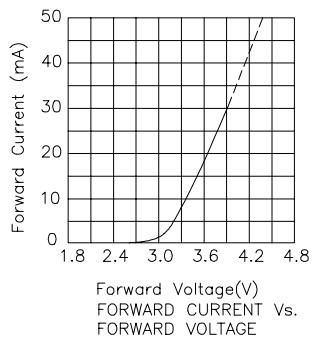


Green



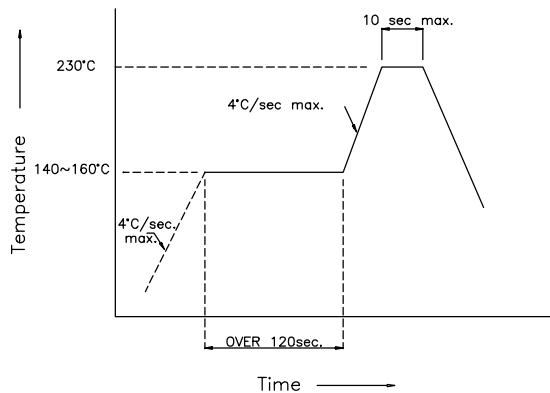
SPATIAL DISTRIBUTION

Blue

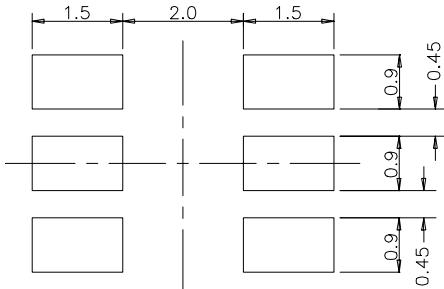


APF3236SURKVGPB SMT Reflow Soldering Instruction

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



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

