

APL3015SF4C-F01

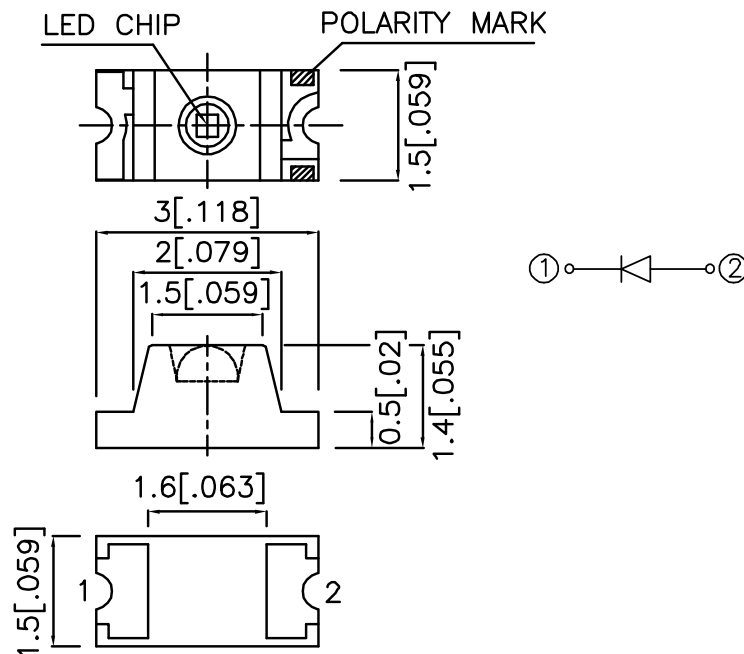
Features

- 3.0mmx1.5mm SMT LED, 1.4mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- RoHS COMPLIANT.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.2 (0.0079") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
APL3015SF4C-F01	SF4 (GaAlAs)	WATER CLEAR	0.4	1	70°

Note:

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

Electrical / Optical Characteristics at TA=25°C

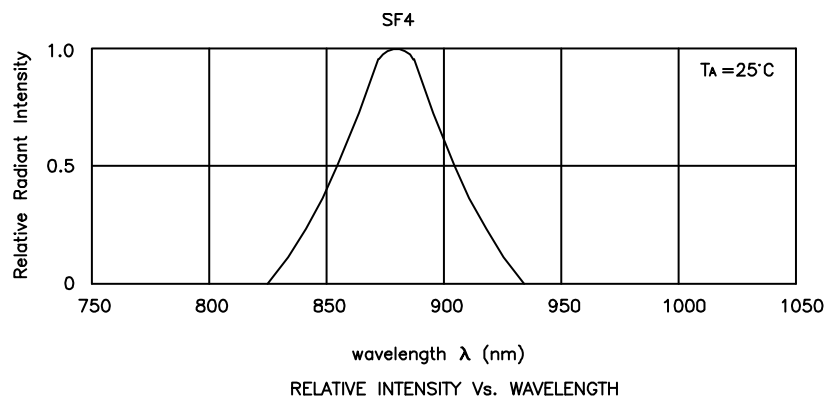
Parameter	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF4	VF	1.3	1.6	V	IF=20mA
Reverse Current	SF4	IR	-	10	uA	VR=5V
Capacitance	SF4	C	90	-	pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λ P	880	-	nm	IF=20mA
Spectral Bandwidth	SF4	$\Delta\lambda$ 1/2	50	-	nm	IF=20mA

Absolute Maximum Ratings at TA=25°C

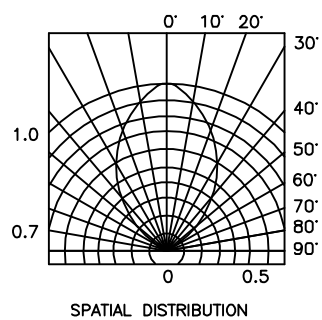
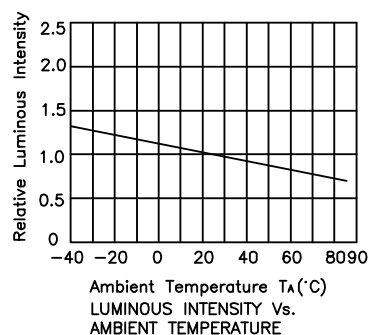
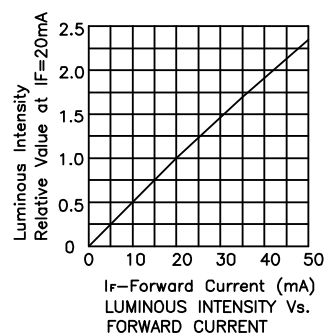
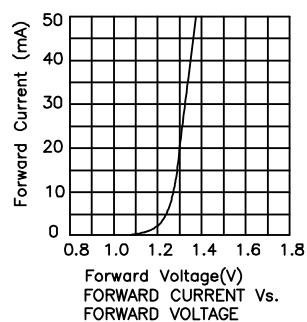
Parameter	Symbol	SF4	Units
Power Dissipation	PT	100	mW
DC Forward Current	IF	50	mA
Peak Forward Current[1]	iFS	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	TA	-40 To +85	°C
Storage Temperature	TSTG	-40 To +85	°C

Note:

1. 1/100 Duty Cycle, 10us Pulse Width.

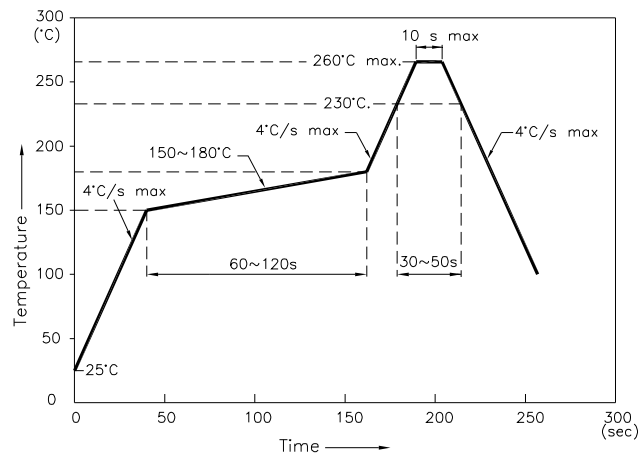


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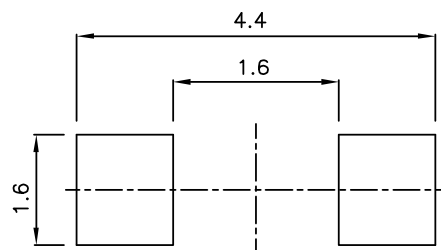
Reflow Soldering Profile For Lead-free SMT Process.



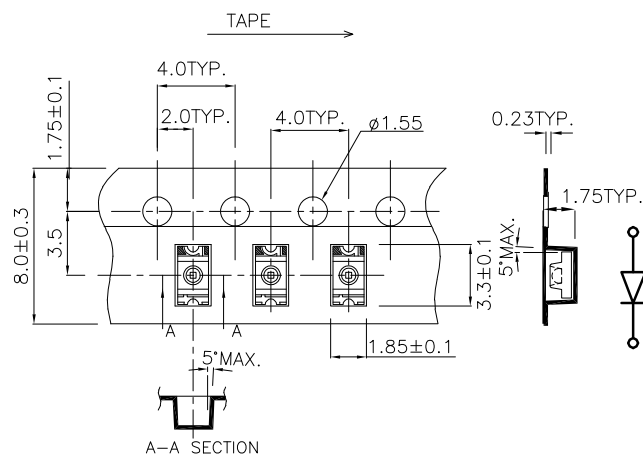
NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$. The maximum soldering temperature should be limited to 260°C .
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)



If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.