2.0x1.25 mm INFRARED EMITTING DIODE

Part Number: APT2012SF4C-PRV

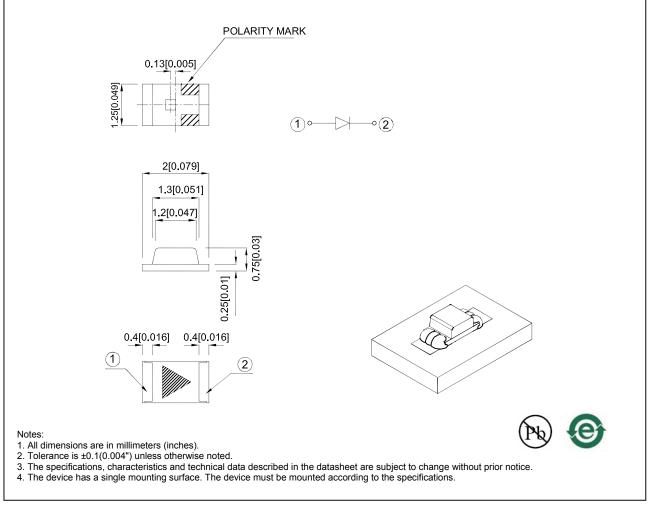
Features

- 2.0mmx1.25mm SMD LED,0.75mm thickness.
- Mechanically and spectrally matched to the phototransistor.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
APT2012SF4C-PRV	Infrared (GaAIAs)	Water Clear	0.8	1.5	160°		

Notes:

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

Radiant Intensity/ luminous flux: +/-15%.
Radiant intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions	
Forward Voltage [1]	SF4	VF	1.3	1.6	V	IF=20mA	
Reverse Current	SF4	IR		10	uA	VR = 5V	
Capacitance	SF4	С	90		pF	VF=0V;f=1MHz	
Peak Spectral Wavelength	SF4	λP	880		nm	IF=20mA	
Spectral Bandwidth	SF4	Δλ1/2	50		nm	IF=20mA	

Notes:

1. Forward Voltage: +/-0.1V.

2. Wavelength value is traceable to CIE127-2007 standards.

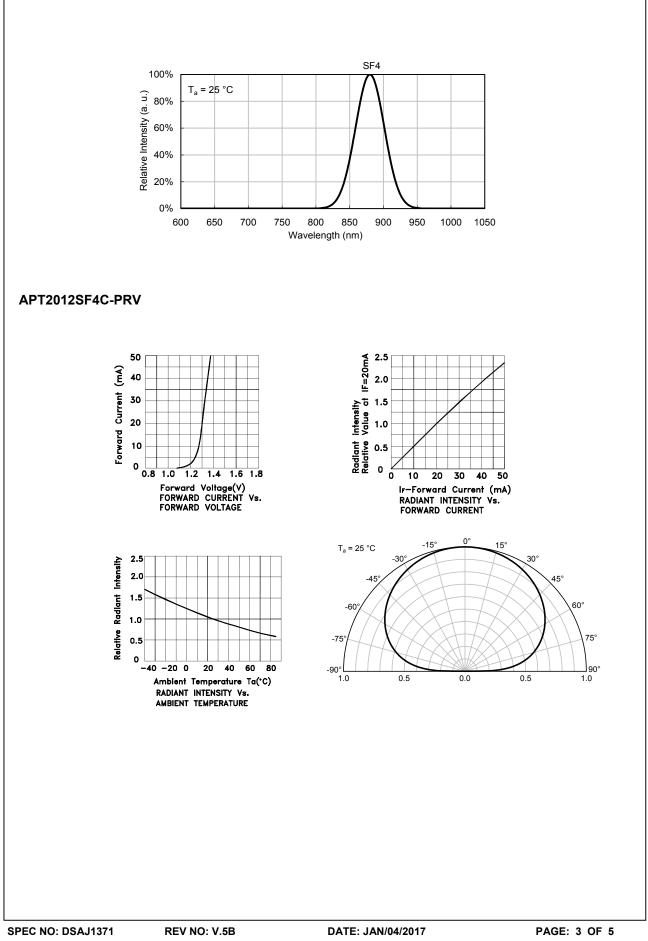
3. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Values	Units
Power dissipation	PD	80	mW
DC Forward Current	lF	50	mA
Peak Forward Current [1]	ifs	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	°C
Storage Temperature	Тѕтс	-40 To +85	°C

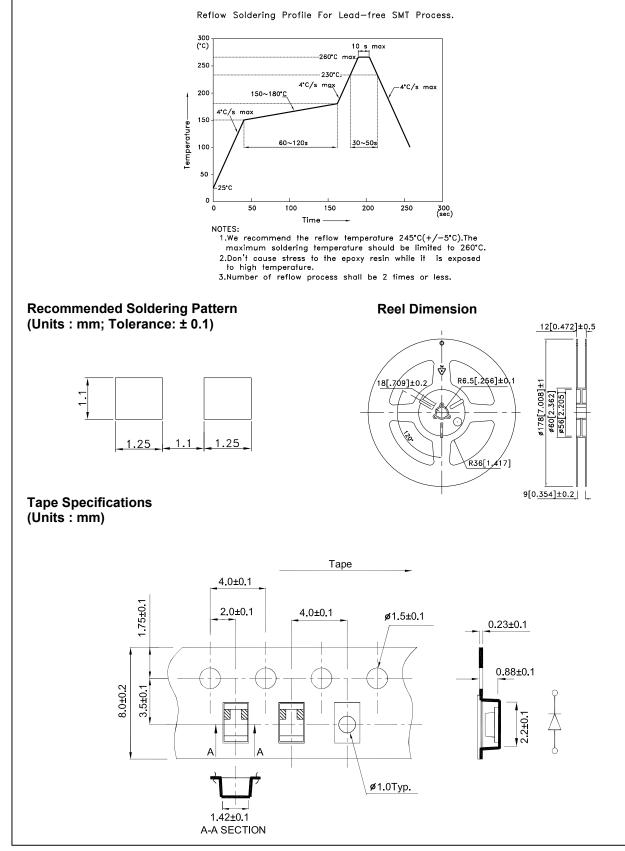
Notes:

1. 1/100 Duty Cycle, 10µs Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

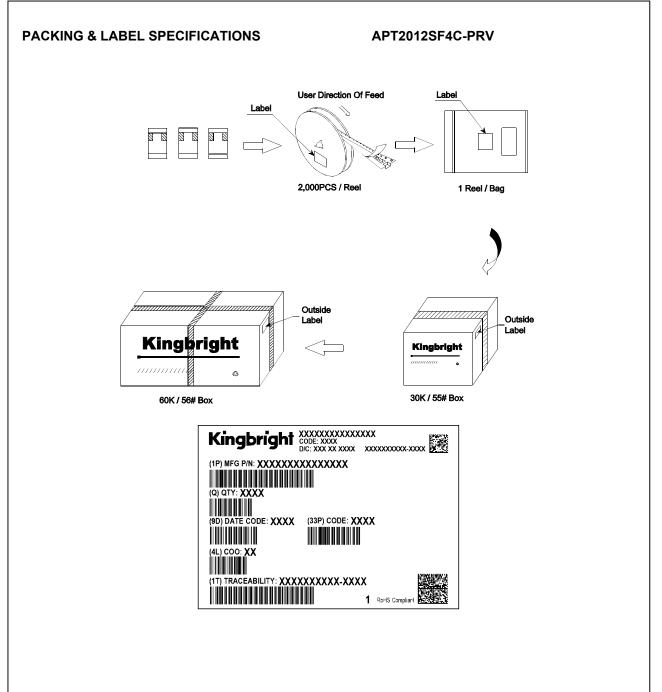


APT2012SF4C-PRV

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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