imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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1.6X0.8mm INFRARED EMITTING DIODE

Part Number: APT1608F3C

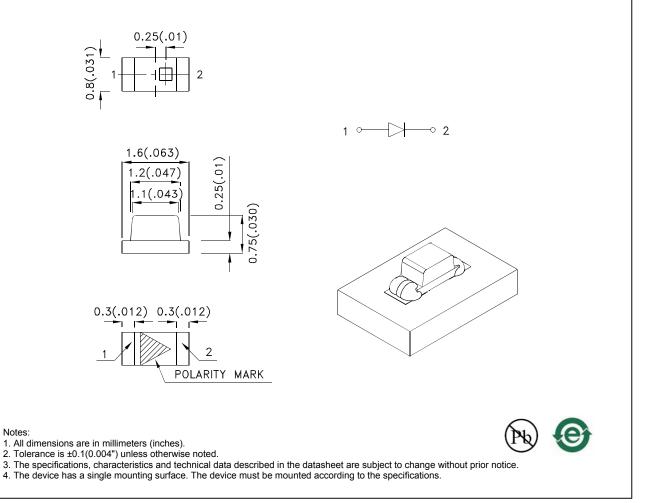
Features

- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Mechanically and spectrally matched to phototransistor.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

Package Dimensions



SPEC NO: DSAH3781 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: DEC/28/2011 DRAWN: D.M.Su PAGE: 1 OF 5 ERP: 1203001654

Selection Guide Po (mW/sr) [2] @ 20mA Viewing Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 1.2 3 120° APT1608F3C Water Clear F3 (GaAs) *2 *0.8

Notes:

θ1/2 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions
Forward Voltage [1]	F3	VF	1.2	1.6	V	I⊧=20mA
Reverse Current	F3	lr		10	uA	VR = 5V
Capacitance	F3	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	F3	λP	940		nm	IF=20mA
Spectral Bandwidth	F3	Δλ1/2	50		nm	IF=20mA

Note:

1. Forward Voltage: +/-0.1V.

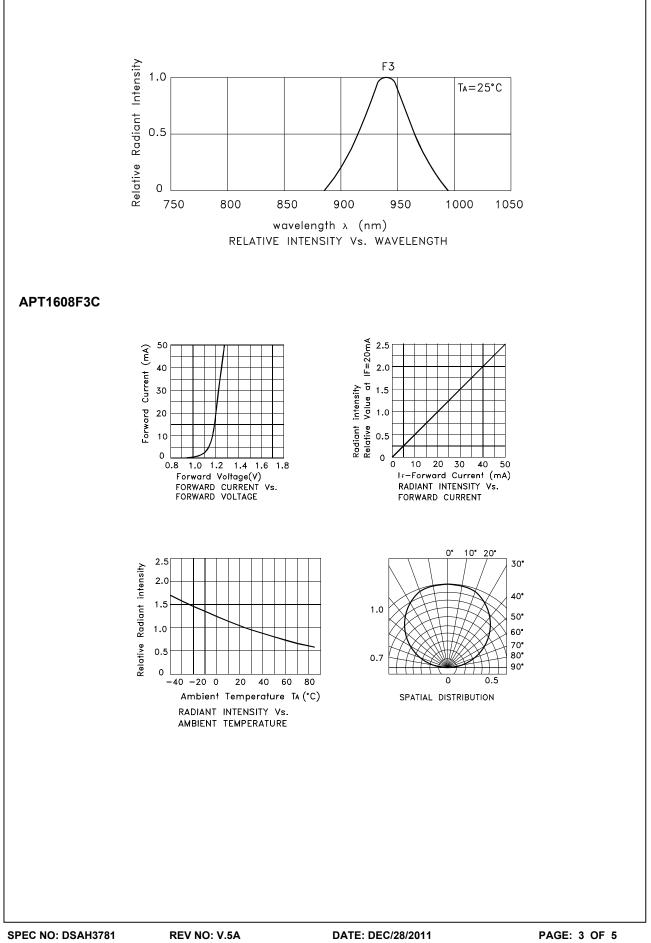
2. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	F3	Units
Power dissipation	Po	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	Тятд	-40 To +85	°C

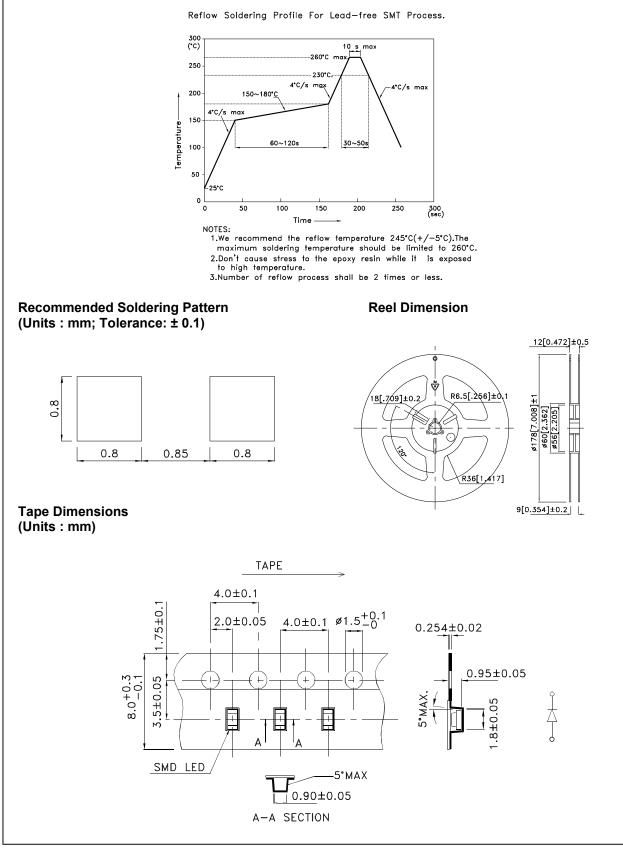
Note:

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



APT1608F3C

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.



DATE: DEC/28/2011 DRAWN: D.M.Su

