## **INFRARED EMITTING DIODE**

Part Number: KM2520F3C03

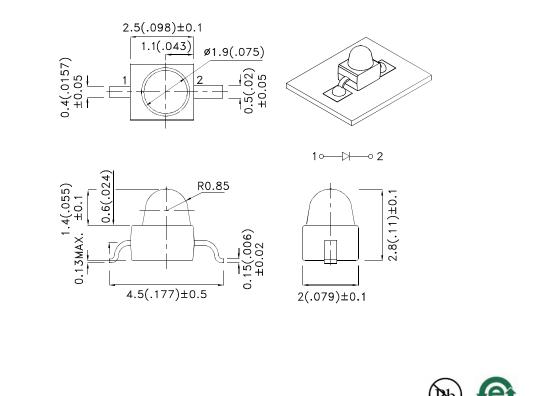
### **Features**

- Subminiature package.
- Mechanically and spectrally matched to the phototransistor.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Package : 1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

### Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

### **Package Dimensions**



### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
  The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
  The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA5108 **APPROVED: WYNEC** 

REV NO: V.13A **CHECKED: Allen Liu** 

DATE: APR/13/2013 **DRAWN: F.Cui** 



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#### **Selection Guide** Po (mW/sr) [2] Po (mW/sr) [2] Viewing @ 20mÁ @ 50mÁ Angle [1] Part No. Dice Lens Type Min. Min. 201/2 Тур. Тур. 5 10 10 20 KM2520F3C03 F3 (GaAs) Water Clear 20° \*3 \*8 \*16 \*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	I⊧=20mA
Spectral Bandwidth	F3	Δλ1/2	50		nm	I⊧=20mA

Notes:

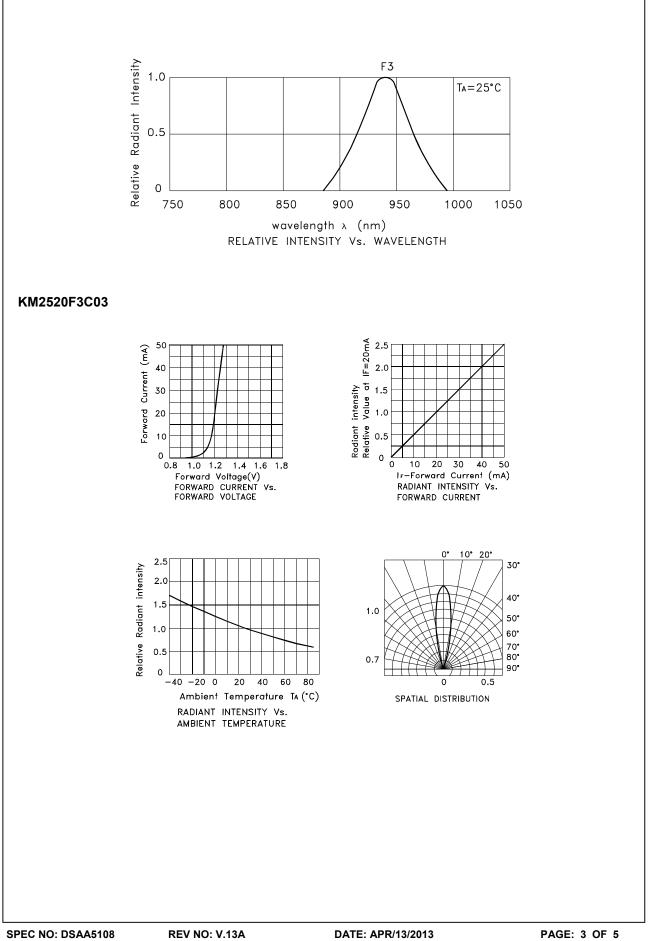
1. Forward Voltage: +/-0.1V.

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

## Absolute Maximum Ratings at TA=25°C

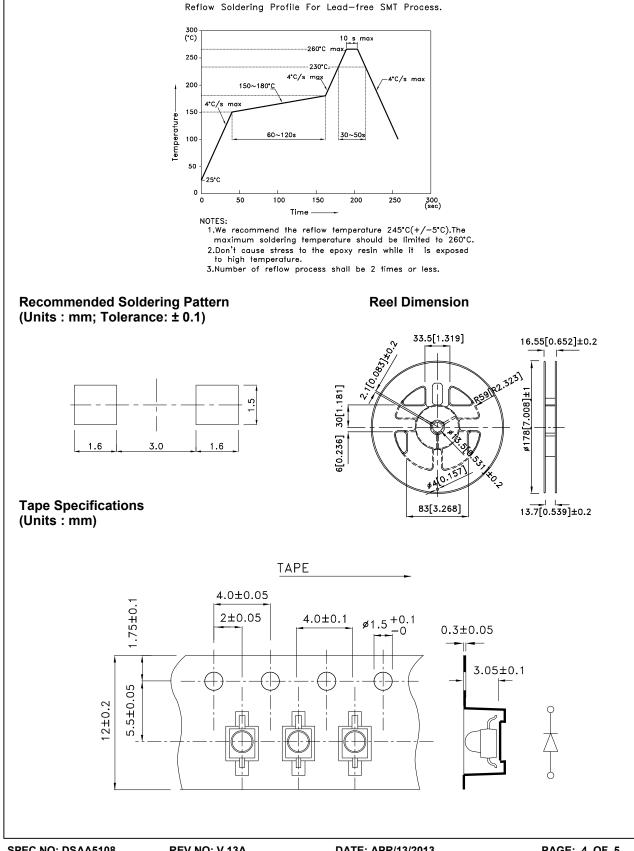
Parameter	Symbol	F3	Units
Power dissipation	PD	80	mW
DC Forward Current	lF	50	mA
Peak Forward Current [1]	ifs	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	°C
Storage Temperature	Tstg	-40 To +85	°C

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



## KM2520F3C03

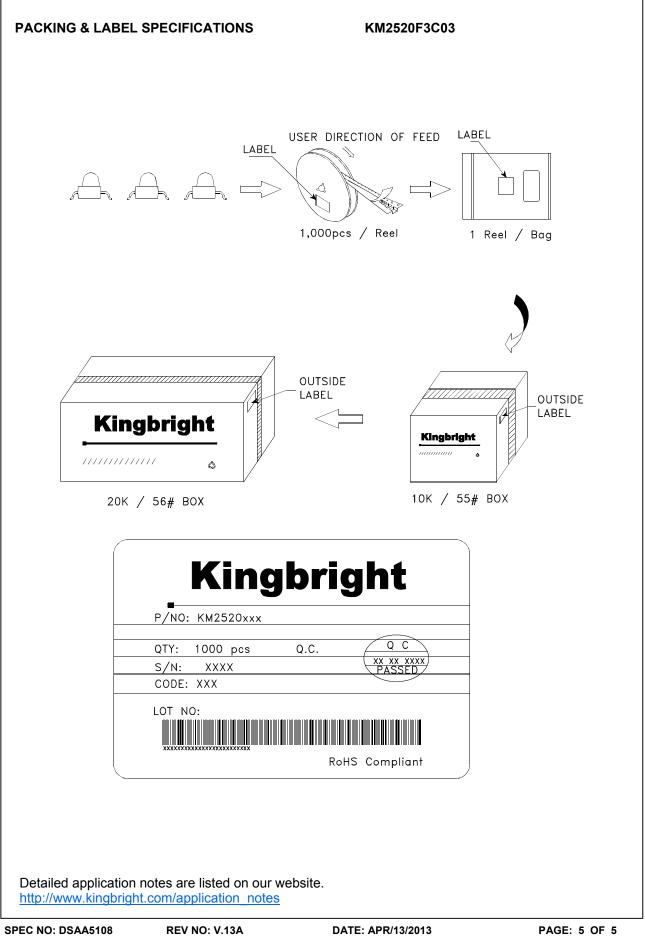
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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