INFRARED EMITTING DIODE

Part Number: KM2520SF4C03

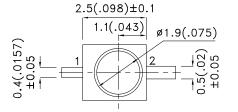
Features

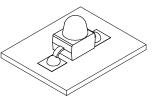
- Subminiature package.
- Mechanically and spectrally matched to the phototransistor.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Package : 1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

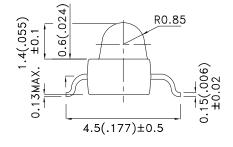
SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions





-KI---- 2 10





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: DSAA5017 **APPROVED: WYNEC**

REV NO: V.11B **CHECKED: Allen Liu**

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



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Solaction Guida

Selection Guide					
Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA *50mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM2520SF4C03	SF4 (GaAlAs)	Water Clear	2	4	- 20°
			*3	*8	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
* Luminous intensity with asterisk is measured at 50mA;Radiant Intensity/ luminous flux: +/-15%.

3. 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]	SF4	VF	1.3	1.6	V	I⊧=20mA
Reverse Current	SF4	lr		10	uA	VR = 5V
Capacitance	SF4	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λP	880		nm	I⊧=20mA
Spectral Bandwidth	SF4	Δλ1/2	50		nm	I⊧=20mA

Notes:

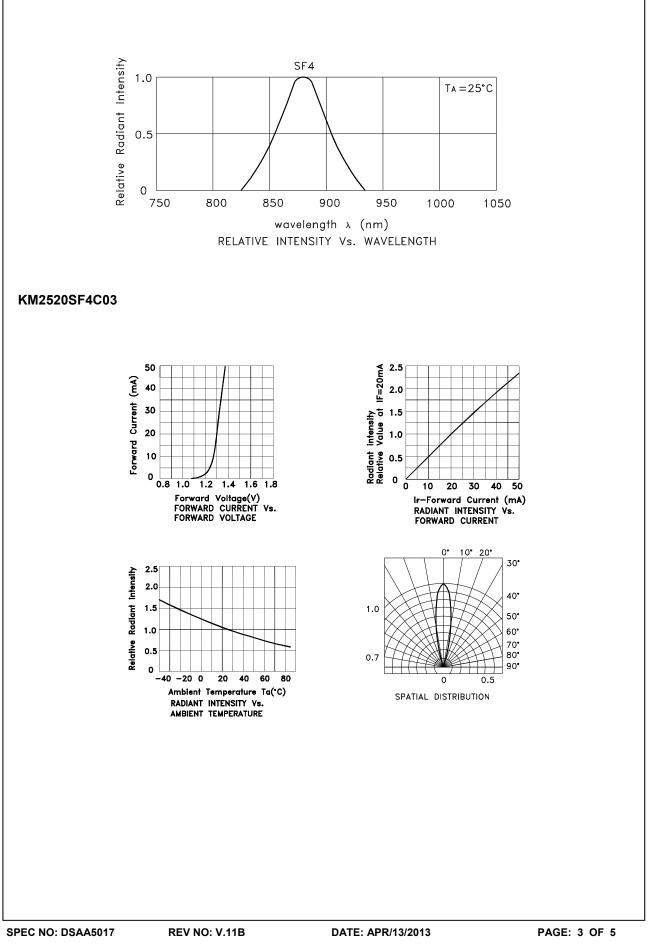
1. Forward Voltage: +/-0.1V.

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

Absolute Maximum Ratings at TA=25°C

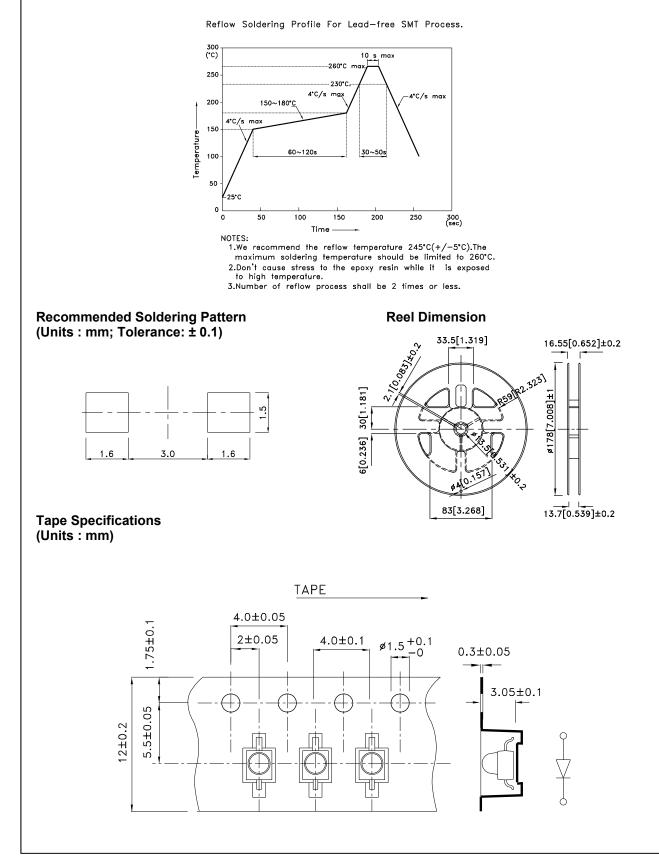
Parameter	Symbol	SF4	Units
Power dissipation	Po	80	mW
DC Forward Current	lF	50	mA
Peak Forward Current [1]	ifs	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	°C
Storage Temperature	Тятд	-40 To +85	°C

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

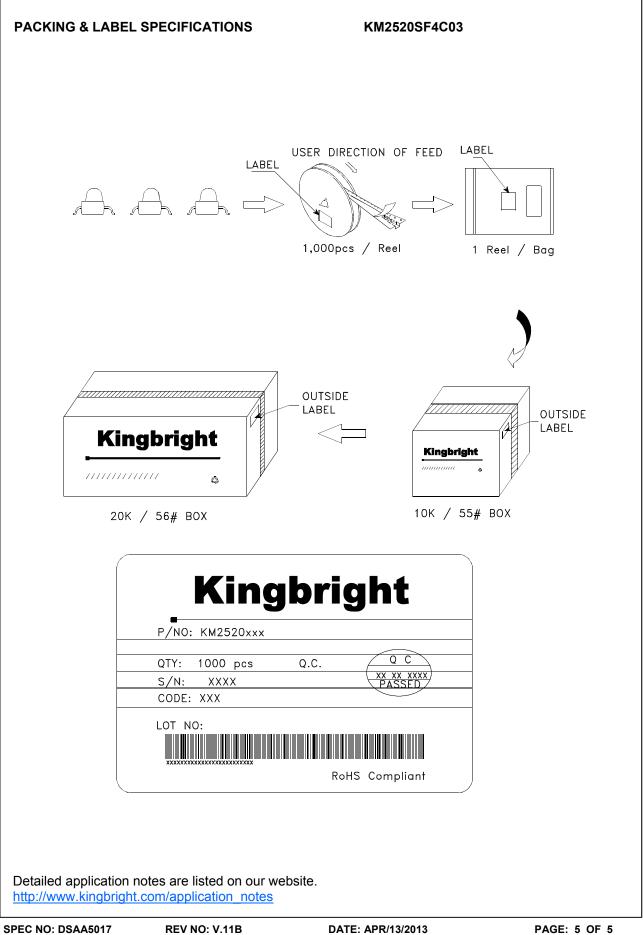


KM2520SF4C03

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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