INFRA-RED EMITTING DIODE

KM2520SF4C03

Features

- •SUBMINIA TURE PACKAGE.
- •GULL WING .
- •MECHANICALLY AND SPECTRALLY MATCHED TO

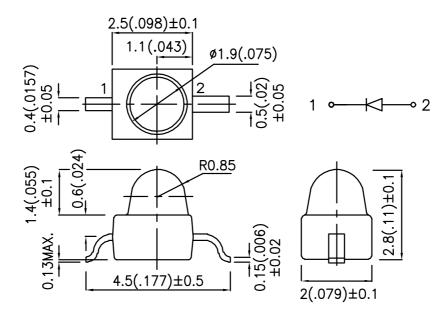
THE PHOTOTRANSISTOR.

- ●PACKAGE: 1000PCS / REEL.
- ●RoHS COMPLIANT.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.4. Specifications are subject to change without notice.

SPEC NO: DSAA5017 **REV NO: V.5** DATE: MAR/20/2005 PAGE: 1 OF 4 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.CHENG

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA *50mA		Viewing Angle
			Min.	Тур.	201/2
KM2520SF4C03	SF4 (GaAlAs)	WATER OLEAR	1.6	4	20°
		WATER CLEAR	*2.6	*8	

Notes:

1.01/2 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	Тур.	Max.	Units	Test Conditions
Forward Voltage	SF4	VF	1.3	1.6	V	IF=20mA
Reverse Current	SF4	lr	-	10	uA	VR=5V
Capacitance	SF4	С	90	=	pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λΡ	880	-	nm	IF=20mA
Spectral Bandwidth	SF4	Δλ1/2	50	-	nm	IF=20mA

Absolute Maximum Ratings at TA=25°C

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

Note:

APPROVED: J. Lu

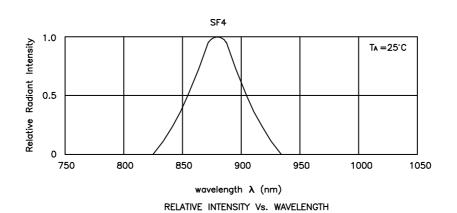
1. 1/100 Duty Cycle, 10us Pulse Width.

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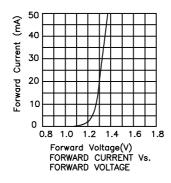
DRAWN: Y.CHENG

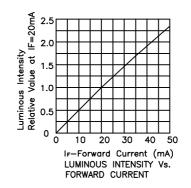
CHECKED: Allen Liu

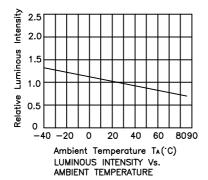
^{2. *} Luminous intensity with asterisk is measured at 50mA.

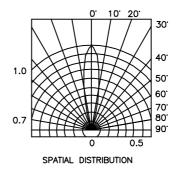


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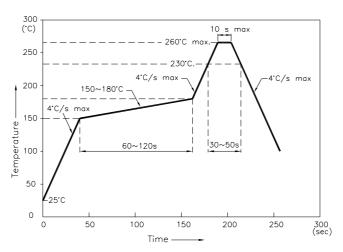




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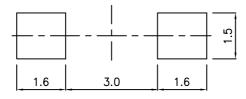
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Reflow Soldering Profile For Lead-free SMT Process.

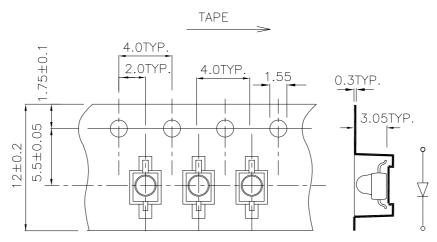


- NOTES: 1. We recommend the reflow temperature 245°C(\pm 0. The temperature should be limited to 260°C. maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - 3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm)



Tape Specifications (Units: mm)



Remarks:

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

- 1. Radiant Intensity: +/-15%
- 2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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Mouser Electronics

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