

KM2520SF4C03

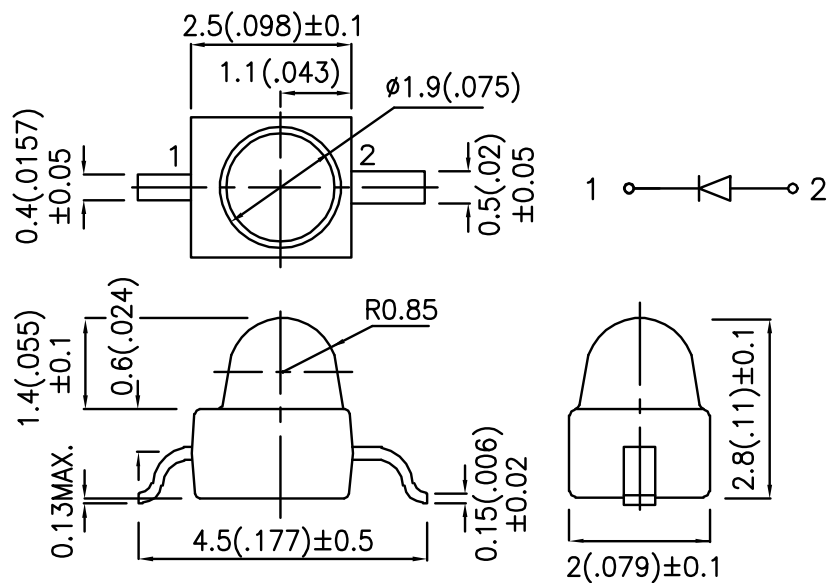
Features

- SUBMINIATURE 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



Notes:

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.

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA *50mA		Viewing Angle
			Min.	Typ.	2θ1/2
KM2520SF4C03	SF4 (GaAlAs)	WATER CLEAR	1.6	4	20°
			*2.6	*8	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

Electrical / Optical Characteristics at TA=25°C

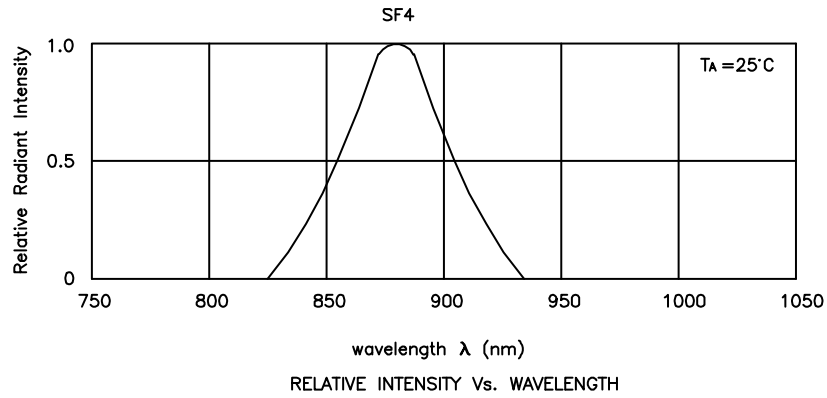
Parameter	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF4	VF	1.3	1.6	V	IF=20mA
Reverse Current	SF4	IR	-	10	uA	VR=5V
Capacitance	SF4	C	90	-	pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λP	880	-	nm	IF=20mA
Spectral Bandwidth	SF4	Δλ1/2	50	-	nm	IF=20mA

Absolute Maximum Ratings at TA=25°C

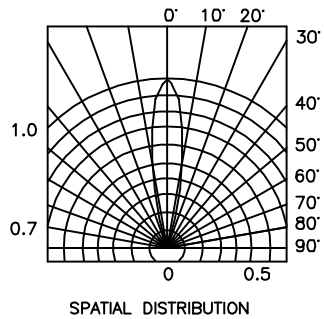
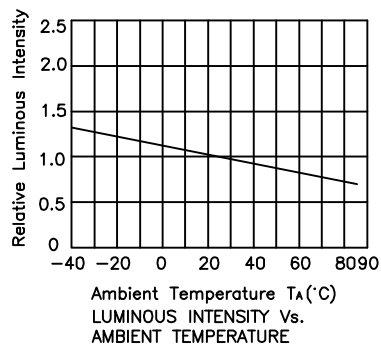
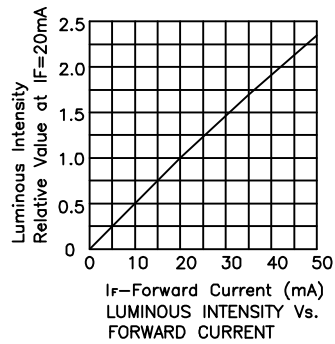
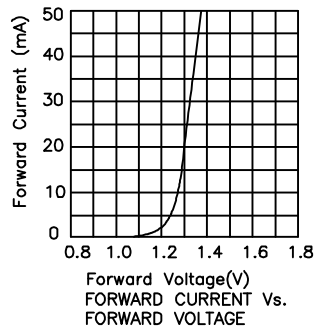
Parameter	Symbol	SF4	Units
Power Dissipation	PT	100	mW
DC Forward Current	IF	50	mA
Peak Forward Current[1]	iFS	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	TA	-40 To +85	°C
Storage Temperature	TSTG	-40 To +85	°C

Note:

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

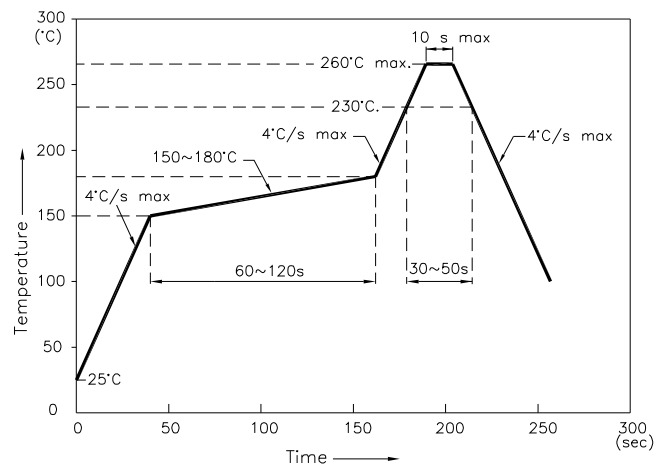


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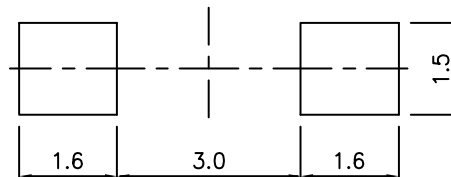
Reflow Soldering Profile For Lead-free SMT Process.



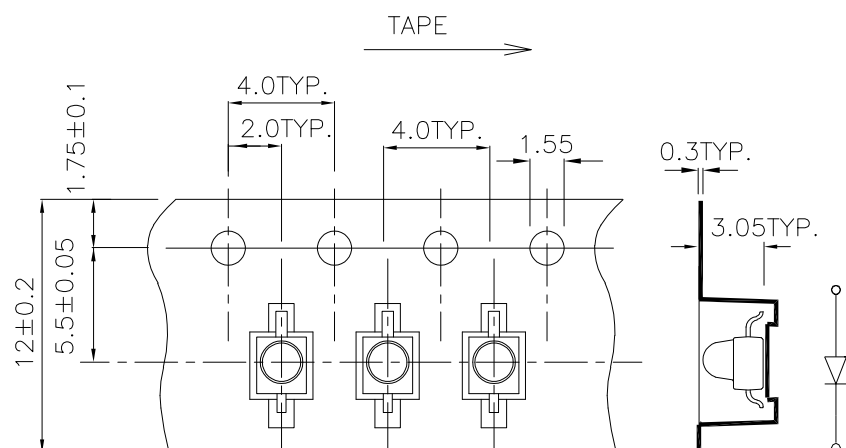
NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$. The 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: $\pm 15\%$
2. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.