

AM2520F3C03

AM2520SF4C03

Features

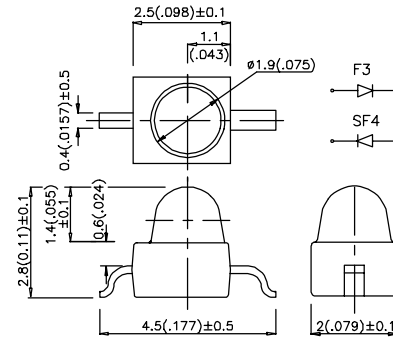
- SUBMINIATURE PACKAGE STYLE OF INFRA-RED LED.
- AVAILABLE ON TAPE AND REEL.
- COMPATIBLE WITH AUTOMATIC PLACEMENT EQUIPMENT.
- HIGH RELIABILITY AND LONG LIFETIME.

Package Dimensions

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01 ") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mW/sr) @20mA *50mA		Viewing Angle
			Min.	Typ.	
AM2520F3C03	GaAs	WATER CLEAR	2	6	30°
			*10	*15	30°
AM2520SF4C03	GaAlAs	WATER CLEAR	2	4	30°
			*3	*8	30°

Note:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

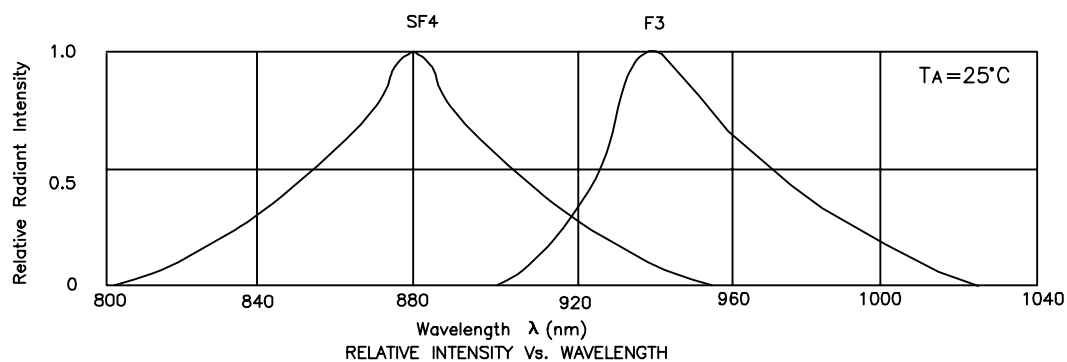
Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	F3 SF4	V _F	1.2 1.4	1.5 1.7	V	I _F =20mA
Reverse Current	F3 SF4	I _R	-	10 10	μA	V _R =5V
Junction Capacitance	F3 SF4	C _o	90 90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	F3 SF4	λ _R	940 880	-	nm	I _F =20mA
Spectral Bandwidth	F3 SF4	Δλ	50 50	-	nm	I _F =20mA

Absolute Maximum Ratings at T_A=25°C

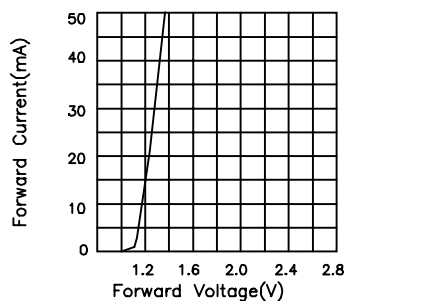
Item	Symbol	Maximum Rating	Units
Power Dissipation	P _d	100	mW
Forward Current	I _F	50	mA
Peak Forward Current	I _p	1.2	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-45~ +80	°C
Storage Temperature	T _{stg}	-45~ +80	°C

Note:

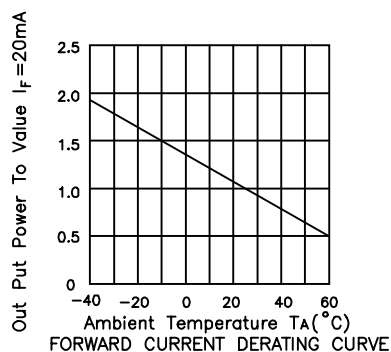
1.I_p Condition : 1/10 Duty Cycle, 0.1ms Pluse Width.



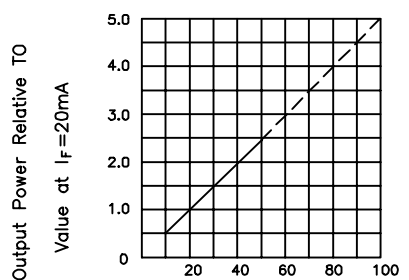
AM2520F3C03



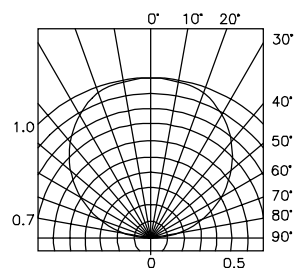
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

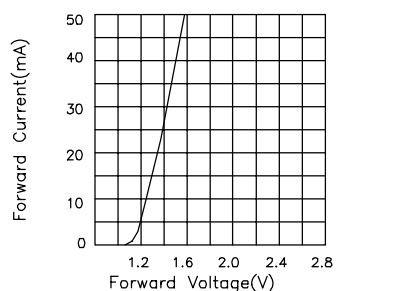


I_F -Forward Current (mA)
Relative Radiant Intensity Vs.
Forward Current

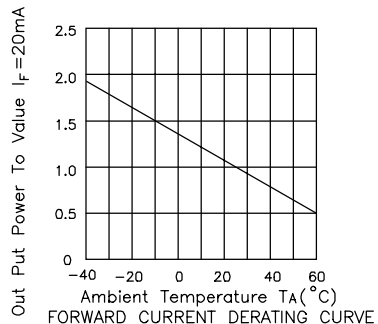


SPATIAL DISTRIBUTION

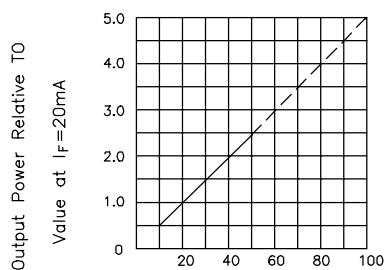
AM2520SF4C03



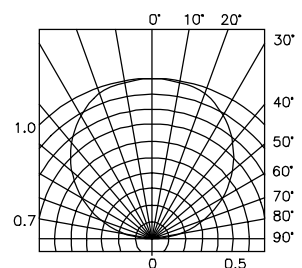
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

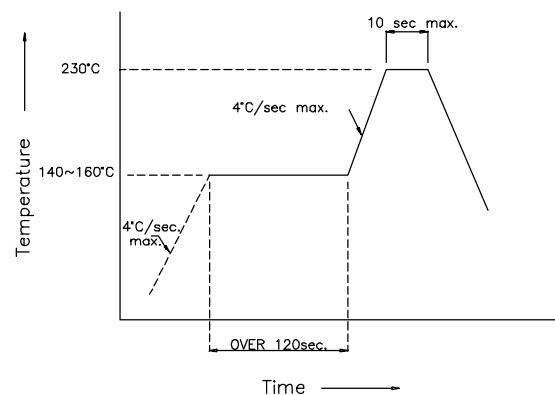


I_F -Forward Current (mA)
Relative Radiant Intensity Vs.
Forward Current

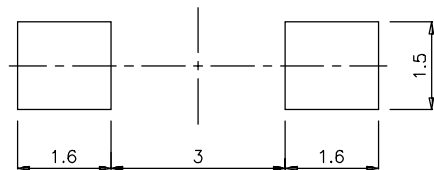


SPATIAL DISTRIBUTION

AM2520F3C03,AM2520SF4C03 SMT Reflow Soldering Instructions



AM2520F3C03,AM2520SF4C03 Recommended Soldering Pattern
(Units : mm)



AM2520F3C03,AM2520SF4C03 Tape Specifications (Units : mm)

