

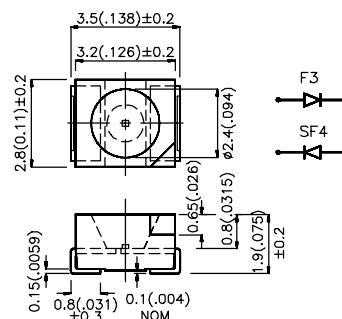
### Features

- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- COMPATIBLE WITH AUTOMATIC PLACEMENT EQUIPMENT.
- HIGH RELIABILITY AND LONG LIFETIME.

AA3528F3C

AA3528SF4C

### 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  $\pm 0.25(0.01")$  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.	
AA3528F3C	GaAs	WATER CLEAR	1	4	120°
			*3	*8	120°
AA3528SF4C	GaAlAs	WATER CLEAR	0.8	1.5	120°
			*2	*4	120°

#### 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 $T_A=25^\circ\text{C}$

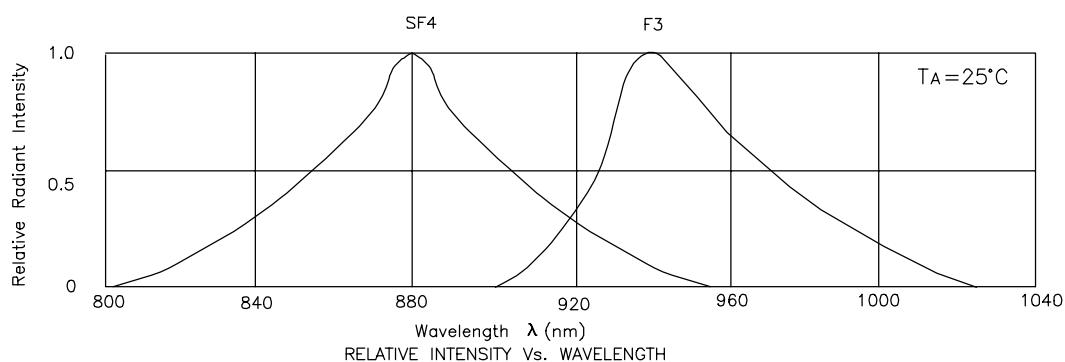
Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	F3 SF4	VF	1.2 1.4	1.5 1.7	V	IF=20mA
Reverse Current	F3 SF4	IR	-	10 10	uA	VR=5V
Junction Capacitance	F3 SF4	Co	90 90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	F3 SF4	IR	940 880	-	nm	IF=20mA
Spectral Bandwidth	F3 SF4	$\Delta\lambda$	50 50	-	nm	IF=20mA

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

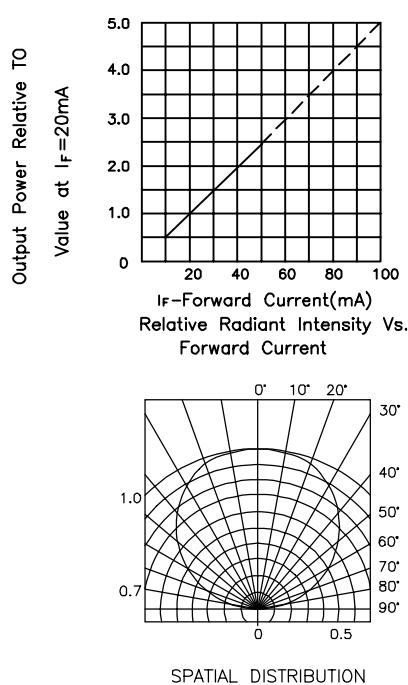
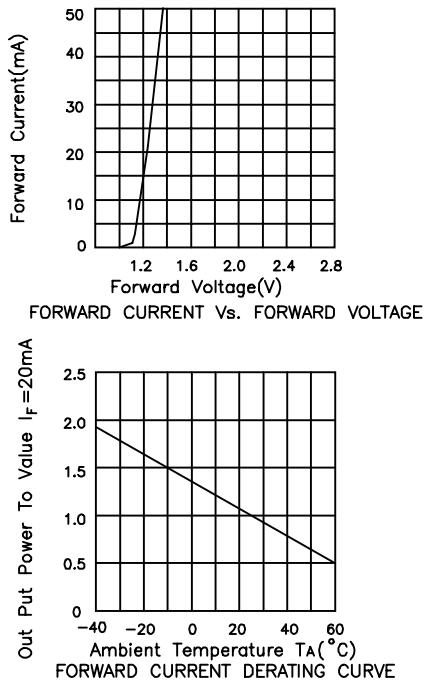
Item	Symbol	Maximum Rating	Units
Power Dissipation	Pd	100	mW
Forward Current	IF	50	mA
Peak Forward Current	I <sub>P</sub>	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	T <sub>opr</sub>	-45~ +80	°C
Storage Temperature	T <sub>stg</sub>	-45~ +80	°C

Note:

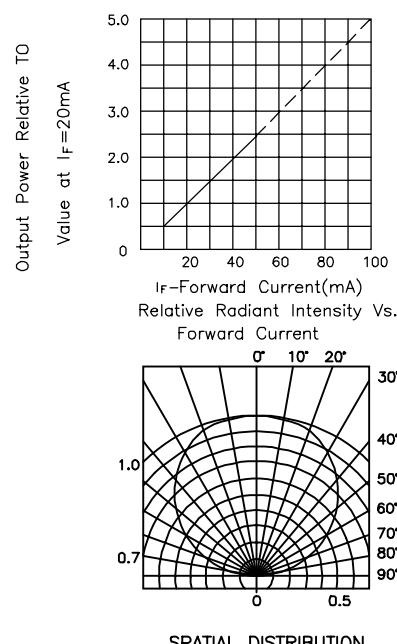
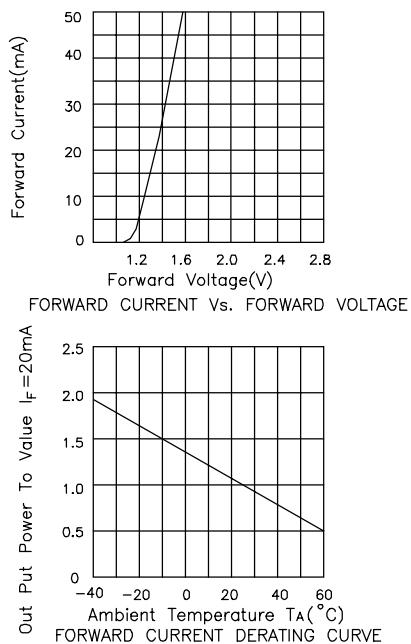
1.lp Condition : 1/10 Duty Cycle, 0.1ms Pulse Width.



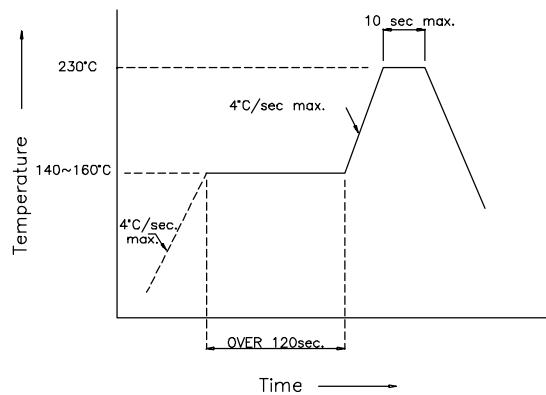
## AA3528F3C



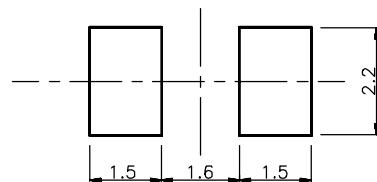
## AA3528SF4C



## AA3528F3C,AA3528SF4C SMT Reflow Soldering Instructions



## AA3528F3C,AA3528SF4C Recommended Soldering Pattern (Units : mm)



**AA3528F3C,AA3528SF4C Tape Specifications**  
(Units : mm)

