

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA*50mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-7104F3C	GaAs	WATER CLEAR	7	30	34°
			*18	*80	

Notes:

- 1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- * Luminous intensity with asterisk is measured at 50mA.

Electrical / Optical Characteristics at TA=25°C

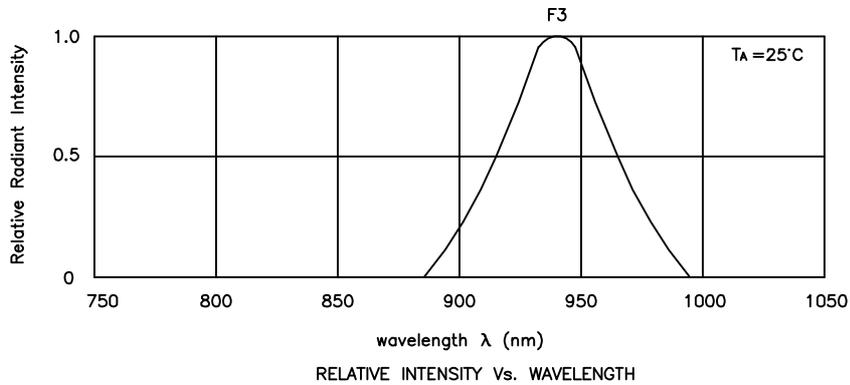
Item	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	F3	V _F	1.2	1.6	V	I _F =20mA
Reverse Current	F3	I _R	-	10	uA	V _R =5V
Capacitance	F3	C	90	-	pF	V _F =0V;f=1MHz
Peak Spectral Wavelength	F3	λ _P	940	-	nm	I _F =20mA
Spectral Bandwidth	F3	Δλ _{1/2}	50	-	nm	I _F =20mA

Absolute Maximum Ratings at TA=25°C

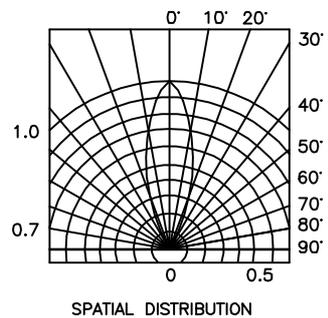
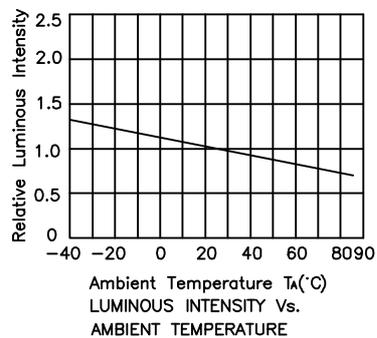
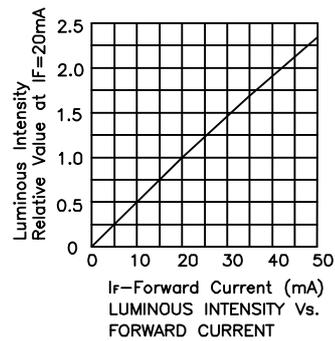
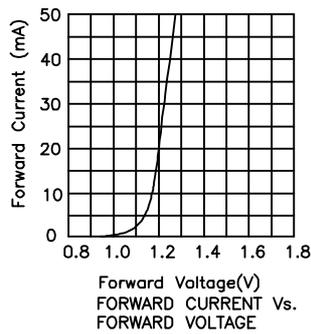
Parameter	Symbol	F3	Units
Power Dissipation	P _T	100	mW
DC Forward Current	I _F	50	mA
Peak Forward Current[1]	i _{FS}	1.2	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _A	-40 To +85	°C
Storage Temperature	T _{STG}	-40 To +85	°C
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

1. 1/100 Duty Cycle, 10us Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



L-7104F3C



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.