



New Rev

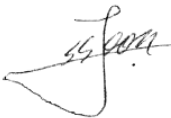

APPROVAL SHEET

CUSTOMER : _____

DEVICE NAME : **Infrared LED**

MODEL NO. : **SIR- 3A446-D4**

ISSUED DATE : **JUL.13. 2012**

	ISSUE	REVIEW	REVIEW	APPR'D
ISSUED DEPT.				



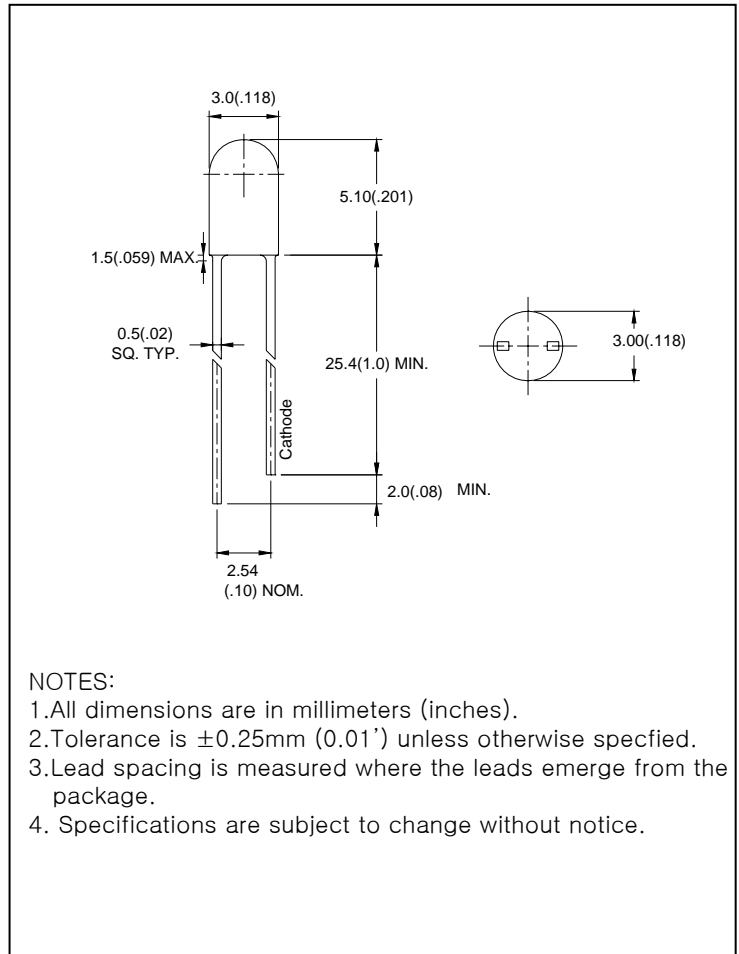
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<http://www.seksemi.com>

● Features:

- 1.High radiant power and high radiant intensity.
2. Standard T-1 3/4(3mm)package.
3. Peak wavelength $\lambda_p=940\text{nm}$.
4. Good spectral matching to si-photodetector.
5. Radiant angle: 40° .
6. Lens Appearance: Water Clear
7. This product doesn't contain restriction substance, comply ROHS standard.

● Applications:

1. Remote Control.
2. Automatic Control System.

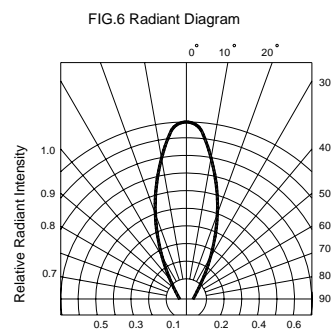
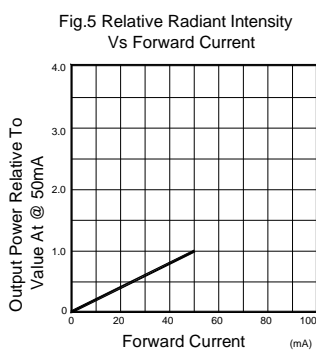
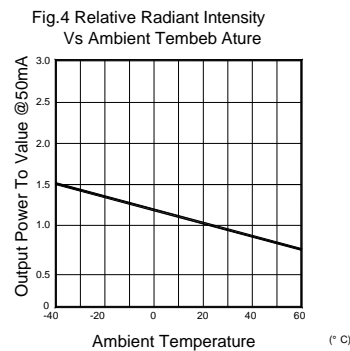
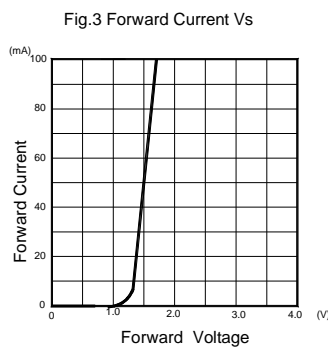
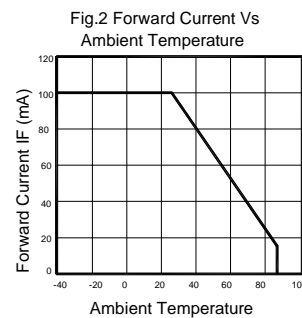
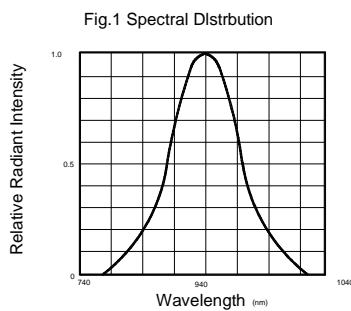
● Package dimensions:

● Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Continuous Forward Current	I _F	100	mA
Peak Forward Current *1	I _{FP}	1.0	A
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-45°C~85°C	-
Storage Temperature	Tstg	-45°C~100°C	-
Soldering Temperature	Tsol	260°C(for 5 seconds)	-

*1Condition for IFP is pulse of 1/10 duty and 0.1msec width.

● Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	I _e	I _F =50mA	11.78	23.8	-	mW/sr
Forward Voltage	V _F	I _F =50mA	-	1.25	1.5	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Peak Wavelength	λ _p	I _F =20mA	-	940	-	nm
Spectral Line Half- Width	Δλ	I _F =20mA	-	50	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	40	-	deg

● Typical electro-optical characteristics curves


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