



New Rev

APPROVAL SHEET

CUSTOMER : _____

DEVICE NAME : **Infrared LED**

MODEL NO. : **SIR- 5A244-C2-TP**

ISSUED DATE : **SEP.8. 2012**

	ISSUE	APPROVED	REVIEW	APPR'D
ISSUED DEPT.		蒋宏华	邱丽红	



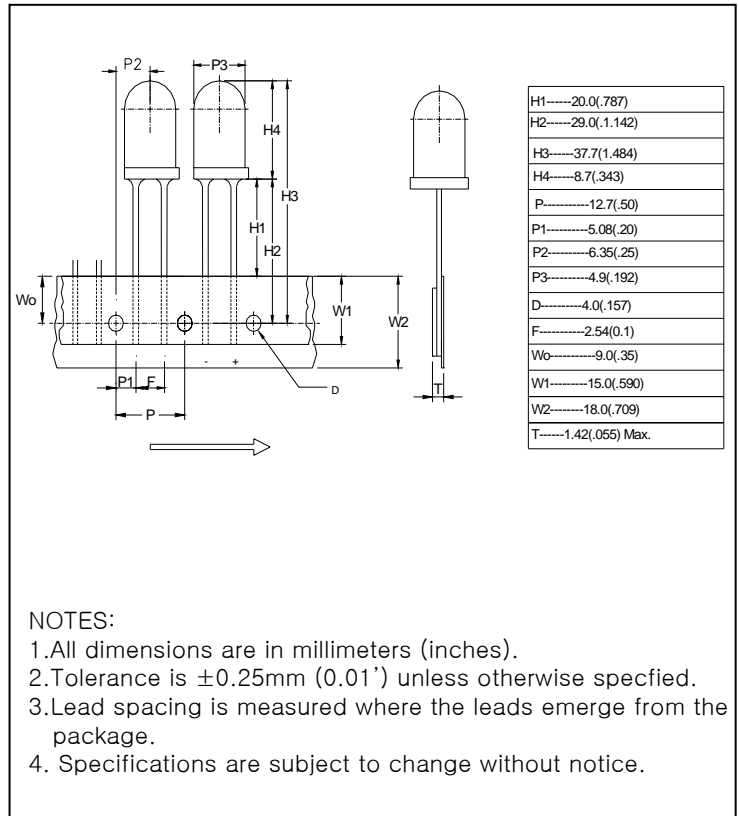
TEL : +86-755-88878308
FAX : +86-755-88828216
Email : sek@seksemi.com
<http://www.seksemi.com>

● Features:

1. High radiant power and high radiant intensity.
2. Standard T-1 3/4(5mm) package.
3. Peak wavelength $\lambda_p=940\text{nm}$.
4. Good spectral matching to si-photodetector.
5. Radiant angle: 30° .
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)

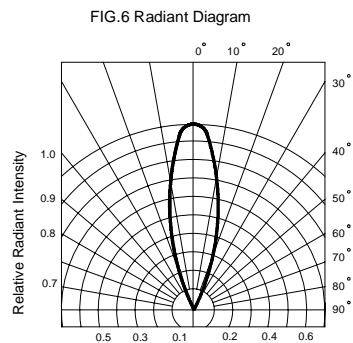
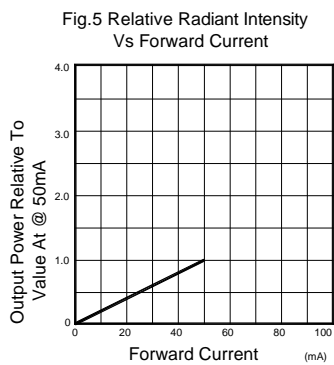
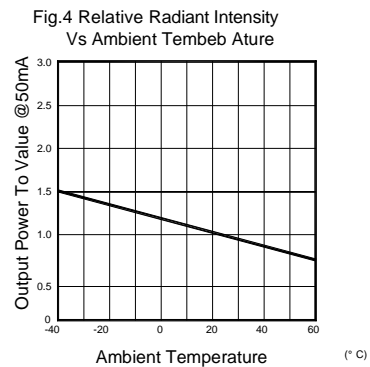
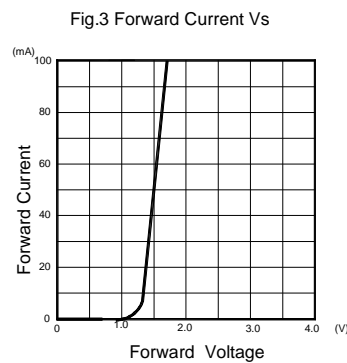
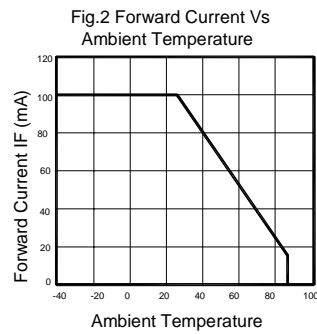
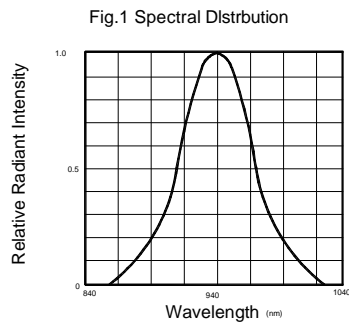
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Continuous Forward Current	I _F	100	mA
Peak Forward Current *1	I _{FP}	1.0	A
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-45°C~85°C	-
Storage Temperature	Tstg	-45°C~100°C	-
Soldering Temperature	Tsol	260°C(for 5 seconds)	-

*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	33.4	-	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	$\Delta \lambda$	$I_F=20mA$	-	50	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	30	-	deg

● Typical electro-optical characteristics curves



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