

**SKI-FF530****IRED****1. Feature**

The **SKI-FF530** is a infrared emitting diode which mounted high power **850 nm IR CHIP**.

It is encapsulated in water clear epoxy resin with **5 mm diameter**.

The radiation substrate material is **AlGaAs**.

High output power even of a low drive current.

Fast response time

**2. Absolute maximum ratings.**

( Ta = 25 )

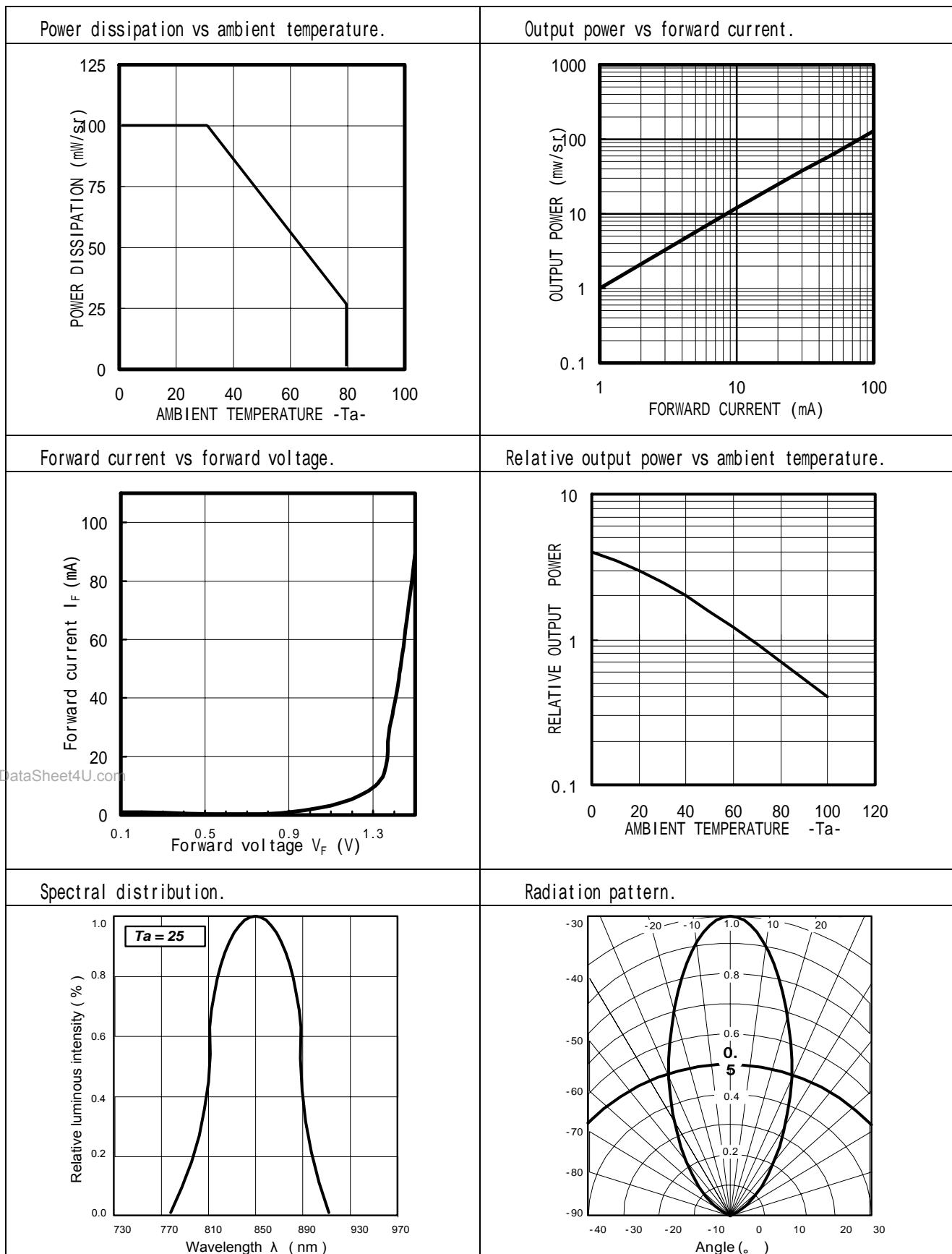
Parameter	Symbol	Ratings	Unit
Forward current	I <sub>F</sub>	100	mA
Reverse voltage	V <sub>R</sub>	5	V
Peak forward current	I <sub>FM</sub>	1	A
Power dissipation	P <sub>D</sub>	150	mW
Operation temperature	T <sub>opr.</sub>	- 20 + 80	
Storage temperature	T <sub>stg.</sub>	- 30 + 100	
Soldering temperature	T <sub>sol.</sub>	260 (within 5 sec)	

**3. Electrical/optical characteristics.**

( Ta = 25 )

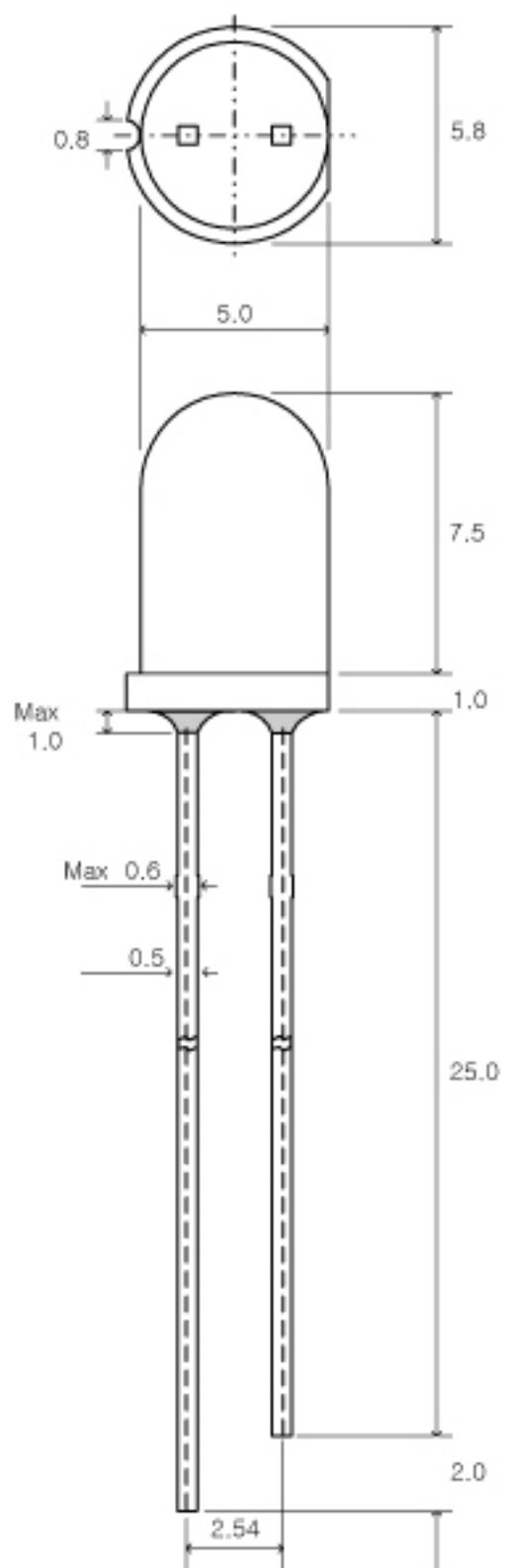
Parameter	Symbol	Test condition	Min.	Typ.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 50 mA		1.45	1.80	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 5 V			10	µA
*Radiant intensity	P <sub>0</sub>	I <sub>F</sub> = 50 mA	35	62		mW / sr
Peak light emitting wavelength	λ	I <sub>F</sub> = 50 mA		850		nm
Spectral half wave width		I <sub>F</sub> = 50 mA		20		nm
Viewing angle	½	I <sub>F</sub> = 50 mA		± 30		deg
Response time	t <sub>r</sub>	I <sub>F</sub> = 50 mA		30		ns

\*Luminous intensity measuring equipment : OPTRONIC CABORATORIES OL-703C PROGRAMMABLE RADIOMETER.

**SKI-FF530****Characteristics diagrams**

SKI-FF530

DIMENSIONS



## NOTES,

1. All dimensions are in "mm".
2. The magnification is 5 : 1.
3. Tolerances are  $\pm 0.2\text{ mm}$  unless otherwise noted.
4. Electrode:

