

■ General Description

The OSE-23F is a high power GaAs IRED mounted in a clear side-looking package is compact low profile , and easy to mount .

■ Features

- Compact
- Low profile package
- Low cost plastic package
- Meet RoHs



■ Applications

- Optical sensor
- Photo interrupters
- Mouse , Toys

■ MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	5	V
Forward direct current	I _F	60	mA
Power dissipation	P _D	100	mW
Pulse forward current *1	I _{FP}	1	A
Operating temperature	T _{opr}	-20 ~ +100	
Storage temperature	T _{stg}	-30 ~ +100	
Lead soldering temp. *2	T _{sol}	260	

* 1 pulse width : tw 100sec , T = 10msec

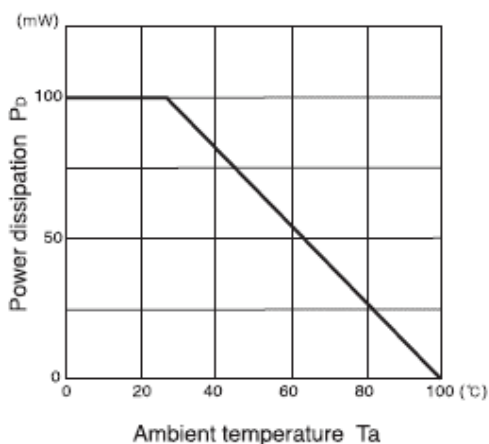
* 2 For MAX. 5 seconds at the position of 2mm from the package

■ ELECTRO-OPTICAL CHARACTERISTICS

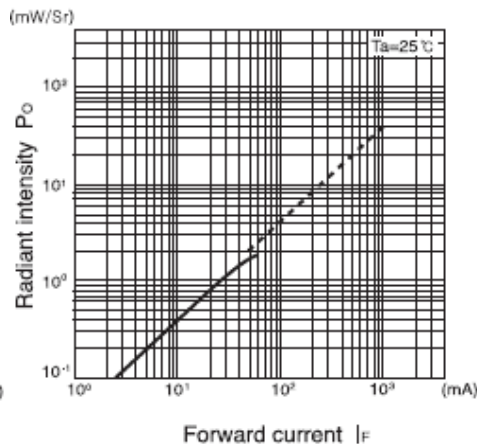
(Ta=25)

Item	Symbol	Condition	Min	Typ	Max	Unit
Radiant intensity	P _o	I _F =60mA		2.0		mW/Sr
Forward voltage	V _F	I _F =60mA		1.3	1.6	V
Reverse current	I _R	V _R =5V			10	μ A
Peak emission wavelength	λ _p	I _F =60mA		940		nm
Spectral band width @ 50%	Δ λ	I _F =60mA		50		nm
Capacitance	C _t	f=1MHz		25		pF
Viewing half angle	Δ θ	I _F =60mA		±30		deg.

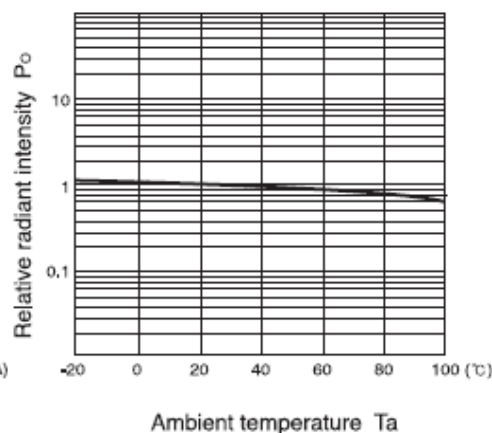
Power dissipation Vs. Ambient temperature



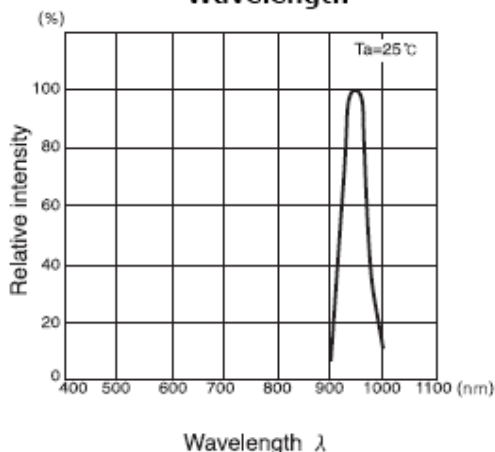
Radiant intensity Vs. Forward current



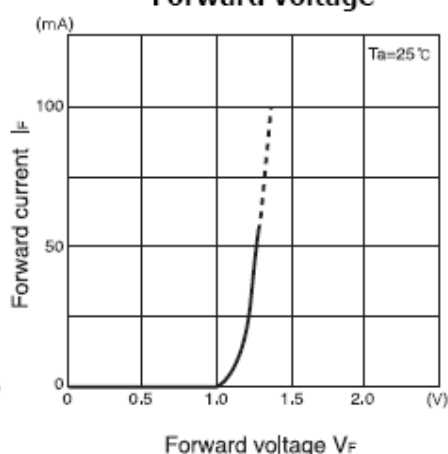
Relative radiant intensity Vs. Ambient temperature



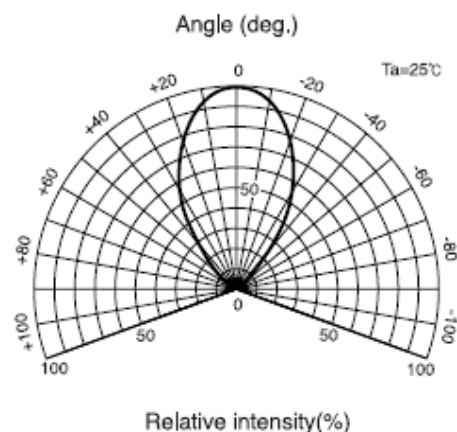
Relative intensity Vs. Wavelength



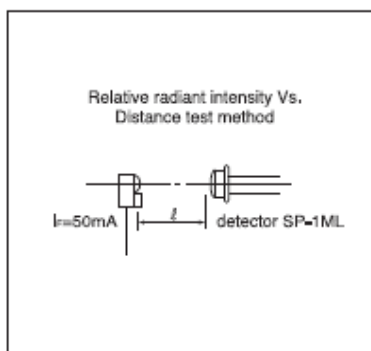
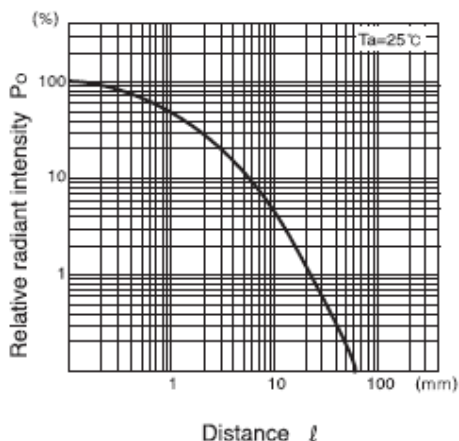
Forward current vs. Forward voltage



Radiant Pattern



Relative radiant intensity Vs. Distance



DIMENSIONS

(Unit: mm)

