

The OHE940MA is a high-power GaAs IRED mounted in a T0-18 type header with clear epoxy encapsulation, has wide beam angle and is relatively low-cost compared T0-18 can-type devices.

## FEATURES

- Wide beam angle
- Relative low cost against metal can package
- Low profile package

## APPLICATIONS

- Optical readers
- Optical switches
- Encoders



## ELECTRO-OPTICAL CHARACTERISTICS

( Ta=25°C )

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF=50mA		1.3	1.5	V
Reverse current	IR	VR=5v			10	µA
Capacitance	CT	f=1MHz		25		pF
Radiant intensity	Po	IF=50mA		2.7		mW/sr
Peak emission wavelength	λp	IF=50mA		940		nm
Spectral bandwidth 50%	Δ λ	IF=50mA		50		nm
Half angle	Δ θ			±32		deg.

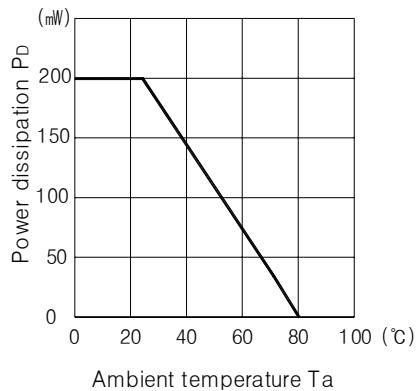
## MAXIMUM RATINGS

( Ta=25°C )

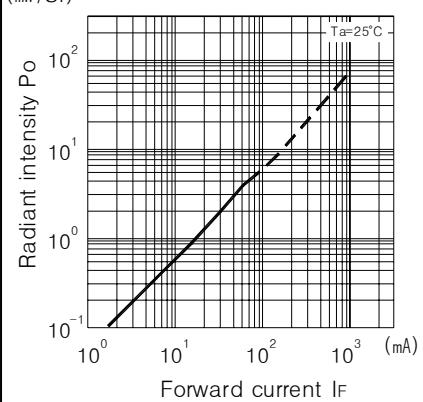
Item	Symbol	Rating	Unit
Reverse voltage	VR	5	V
Forward current	IF	100	mA
Pulse forward current	IFP	1	A
Power dissipation	Pd	200	mW
Operating temp.	Topr	-25~+80	°C
Storage temp.	Tstg	-30~+100	°C
Soldering temp. <sup>(1)</sup>	Tsol	260	°C

(1)For MAX.5seconds at the position of 2mm from the package

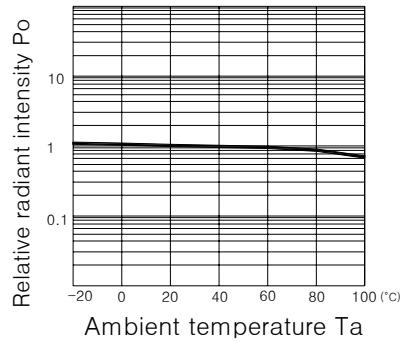
■ Power dissipation Vs Ambient temperature



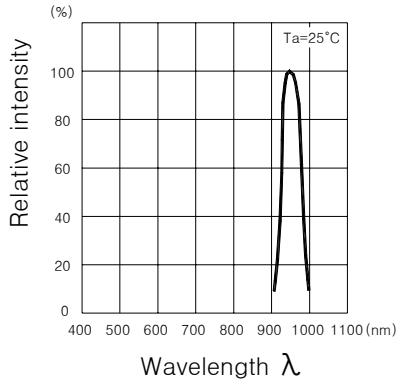
■ Radiant intensity Vs Forward current



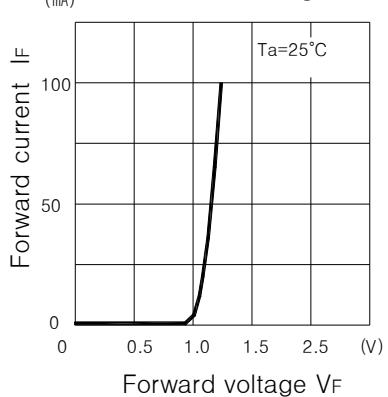
■ Relative radiant intensity Vs Ambient temperature



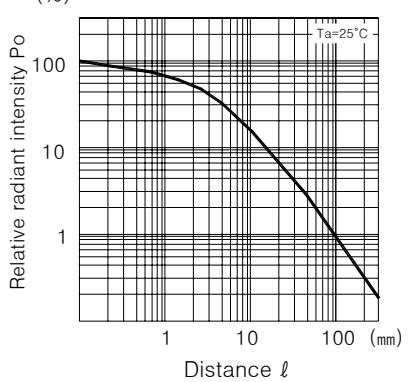
■ Relative intensity Vs Wavelength



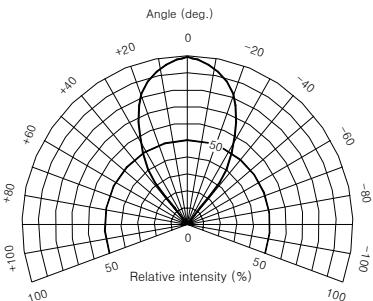
■ Forward current Vs Forward voltage



■ Relative radiant intensity Vs Distance



■ Radiant Pattern



■ DIMENSIONS (Unit:mm)

