OHE940CA

INFRARED EMITTING DIODES

The OHE940CA is a high-power GaAs IRED mounted in durable,hermetically sealed TO-18 metal can package, which provides years of reliable performance even under demanding conditions such as use outdoor.

FEATURES

- Narrow beam angle
- Durable
- High reliability in demanding environments



APPLICATIONS

- Optical emitters
- Optical switches
- Smoke sensors

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25℃)

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF=100mA		1.3	1.7	V
Reverse current	IR	VR=5v			10	μA
Capacitance	CT	f=1MHz		25		pF
Radiant intensity	Po	IF=100mA		15.0		mW/sr
Peak emission wavelength	λp	IF=100mA		940		nm
Spectral bandwidth 50%	Δλ	IF=100mA		50		nm
Half angle	Δθ			±5		deg.

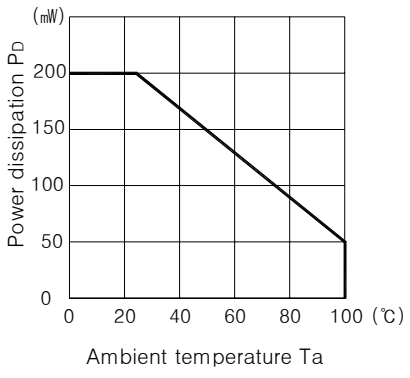
MAXIMUM RATINGS

(Ta=25℃)

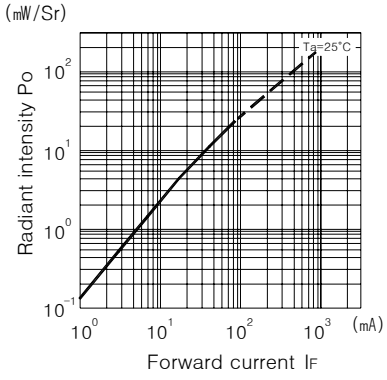
Item	Symbol	Rating	Unit
Reverse voltage	VR	5	V
Forward current	IF	100	mA
Pulse forward current	IFP	1	A
Power dissipation	Pd	200	mW
Operating temp.	Topr	-40～+100	℃
Storage temp.	Tstg	-55～+125	℃
Soldering temp.(1)	Tsol	260	℃

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

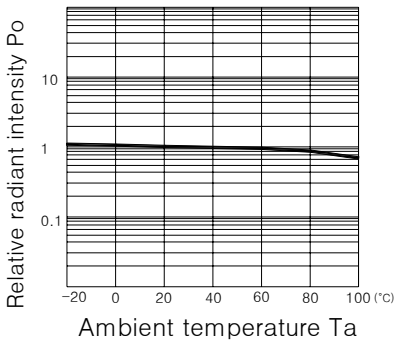
■ Power dissipation Vs Ambient temperature



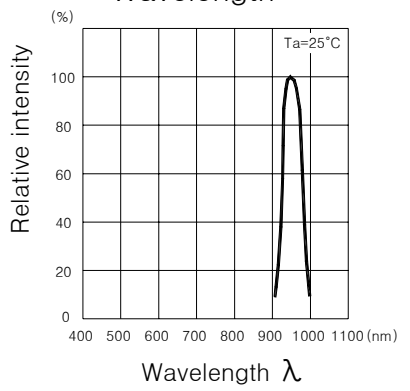
■ Radiant intensity Vs Forward current



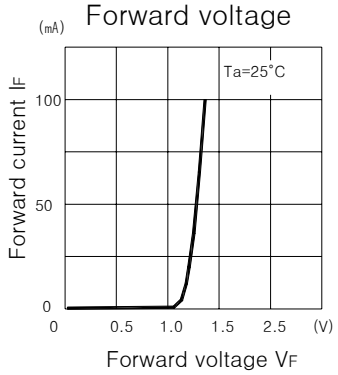
■ Relative radiant intensity Vs Ambient temperature



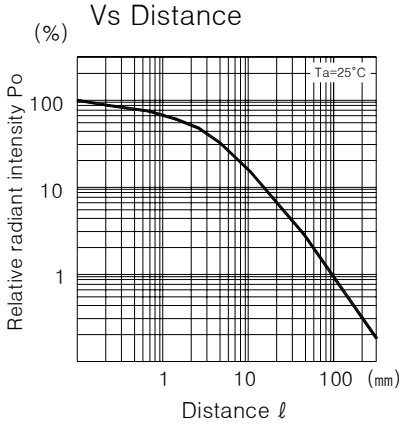
■ Relative intensity Vs Wavelength



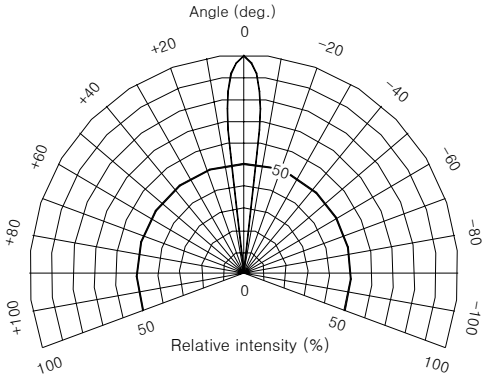
■ Forward current Vs Forward voltage



■ Relative radiant intensity Vs Distance



■ Radiant Pattern



■ DIMENSIONS (Unit:mm)

