

The **OHC875CA** is a high-power GaAlAs IRED with precision optical designed lens.

It emits parallel infrared lights.

FEATURES

- Parallel rays
- High reliability
- Flat radiation pattern
- Compact

APPLICATIONS

- Smoke sensors
- High performance-linear sensor
- Encoders



ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF=50mA		1.6	2.0	V
Reverse current	IR	VR=5v			10	μA
Capacitance	CT	f=1MHz		18		pF
Radiant intensity	Po	IF=50mA		10		mW
Peak emission wavelength	λp	IF=50mA		875		nm
Spectral bandwidth 50%	Δλ	IF=50mA		50		nm
Half angle	Δθ			±9		deg.

MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
Reverse voltage	VR	5	V
Forward current	IF	80	mA
Pulse forward current	IFP	0.8	A
Power dissipation	Pd	160	mW
Operating temp.	Topr	-30~+100	°C
Storage temp.	Tstg	-40~+125	°C
Soldering temp. ⁽¹⁾	Tsol	260	°C

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

