

The **0HC875CB** 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

- Encoders
- High performance-linear sensor



ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25℃)

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =50mA		1.6		V
Reverse current	I _R	V _R =5v			10	μA
Capacitance	C _t	f=1MHz		18		pF
Radiant intensity	P _o	I _F =50mA		15		mW
Peak emission wavelength	λ _p	I _F =50mA		875		nm
Spectral bandwidth 50%	Δ λ	I _F =50mA		50		nm
Half angle	Δ θ			±19		deg.

MAXIMUM RATINGS

(Ta=25℃)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	5	V
Forward current	I _F	80	mA
Pulse forward current	I _{FP}	0.8	A
Power dissipation	P _D	160	mW
Operating temp.	T _{opr.}	-30~+100	℃
Storage temp.	T _{stg.}	-55~+125	℃
Soldering temp. ⁽¹⁾	T _{sol.}	260	℃

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

