

The **OHT10CB** is a high-sensitivity NPN silicon phototransistor mounted in durable, hermetically sealed TO-18 metal can which provide years of reliable performance, even under demanding conditions such as use outdoors.

FEATURES

- Narrow angular response
- Durable
- High reliability in demanding environments
- Two leads(Collector, Emitter)



APPLICATIONS

- Optical counters
- Optical detectors
- Infrared sensors
- Encoders
- Smoke detectors

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Collector dark current	I_{CE0}	$V_{CE0}=10V$		1	200	nA
Light current	I_L	$V_{CE}=10v, 200Lux$	1.5	6.0	16	mA
C-E saturation voltage	$V_{ce(sat)}$	$I_c=5mA, 2000Lux$		0.2	0.4	V
Switching speeds	Rise time	$V_{cc}=10v, I_c=5mA$ $R_L=100\Omega$		8.0		usec.
	Fall time			10		usec.
Spectral sensitivity	λ		500~1,050			nm
Peak wavelenght	λ_p			880		nm
Half angle	$\Delta \theta$			± 15		deg.

MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
C-E voltage	V_{CE0}	40	V
E-C voltage	V_{EC0}	4	V
Collector current	I_c	50	mA
Collector power dissipation	P_D	150	mW
Operating temp.	$T_{opr.}$	-30~+125	°C
Storage temp.	$T_{stg.}$	-50~+150	°C
Soldering temp. ⁽¹⁾	$T_{sol.}$	260	°C

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

