

The OHTG10MA is a high-sensitivity NPN silicon phototransistor mounted in T0-18 type header with clear epoxy encapsulation. The phototransistors have a wide angular response and relatively low cost compared to T0-18 can type devices.

FEATURES

- Wide angular response
- Relatively low-cost against metal can package
- Three leads(Collector , Emitter , Base)

APPLICATIONS

- Optical Switches
- Camera stroboscopes
- infrared sensors

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit
Collector dark current	I _{CEO}	V _{CEO} =10V		1	200	nA
Light current	I _L	V _{CE} =10v, 200Lux	0.5	2.0	5.0	mA
C-E saturation voltage	V _{ce(sat)}	I _c =2mA, 2000Lux		0.2	0.4	V
Switching speeds	Rise time	t _r	V _{cc} =10v, I _c =5mA R _L =100Ω	8		usec.
	Fall time	t _f		10		usec.
Spectral sensitivity	λ			500~1,050		nm
Peak wavelength	λ _p			880		nm
Half angle	Δ θ			±70		deg.

MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
C-E voltage	V _{CEO}	40	V
E-C voltage	V _{ECO}	4	V
Collector current	I _c	30	mA
Power dissipation	P _D	100	mW
Operating temp.	T _{opr.}	-25~+90	°C
Storage temp.	T _{stg.}	-30~+100	°C
Soldering temp. ⁽¹⁾	T _{sol.}	260	°C

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

