

OST-1MLB

Phototransistors

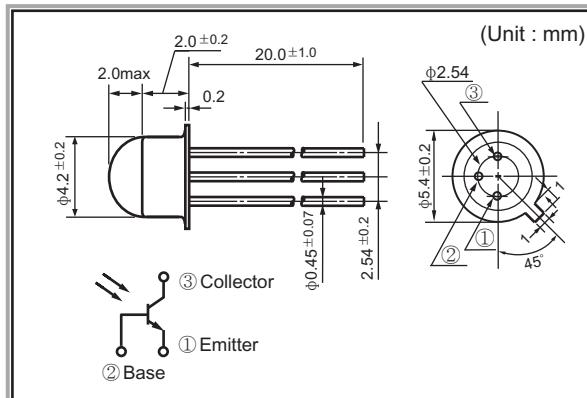
The OST-1MLB is high-sensitivity NPN silicon phototransistors mounted in TO-18 type header with clear epoxy encapsulation. The phototransistors have a wide angular response and relatively low-cost compared to TO-18 can type devices.

FEATURES

- Wide angular response
- Low profile package
- Low cost

APPLICATIONS

- Optical switches
- Camera stroboscopes
- Infrared sensors



MAXIMUM RATINGS

(Ta = 25°C)

ITEM	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Collector Voltage	V _{ECO}	4	V
Collector Current	I _C	30	mA
Collector Power Dissipation	P _C	100	mW
Operating Temperature	T _{opr}	-25 ~ +90	°C
Storage Temperature	T _{stg}	-30 ~ +100	°C
Soldering Temperature *1	T _{sol}	260	°C

*1 For max. 5seconds at the position of 2mm from the resin edge.

ELECTRO-OPTICAL CHARACTERISTICS

(Ta = 25°C)

ITEM	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector Dark Current	I _{CEO}	V _{CEO} =10V		1	200	nA
Light Current	I _L	V _{CE} =10V, 200Lux *2	0.5	2.0	5.0	mA
C-E Saturation Voltage	V _{CE(sat)}	I _C =2mA, 2000Lux *2		0.2	0.4	V
Switching Speed	Rise Time	tr	V _{CC} =10V, I _C =5mA R _L =100Ω	8		μs
	Fall Time	t _f		10		μs
Spectral Sensitivity	λ		350 ~ 1,050			nm
Peak Wavelength	λ _p		880			nm
Half Angle	Δθ			±70		deg.

*2 Color temp. = 2856K standard tungsten lamp.

OSCAR