

# S23EME0GFJ

## 16Gbps PIN-TIA Receiver for 850nm short distance application

### Ordering Information (Standard version <sup>\*Note1</sup>)

Part No.	Date Rate	Wavelength(nm)	Voltage (V)	Pin Type
S23EME0GFJ	16G	850nm	3.3	E

\*Note1: For more ordering information, please refer the nomenclature and contact EPOTOLINK sales.

### Absolute maximum ratings

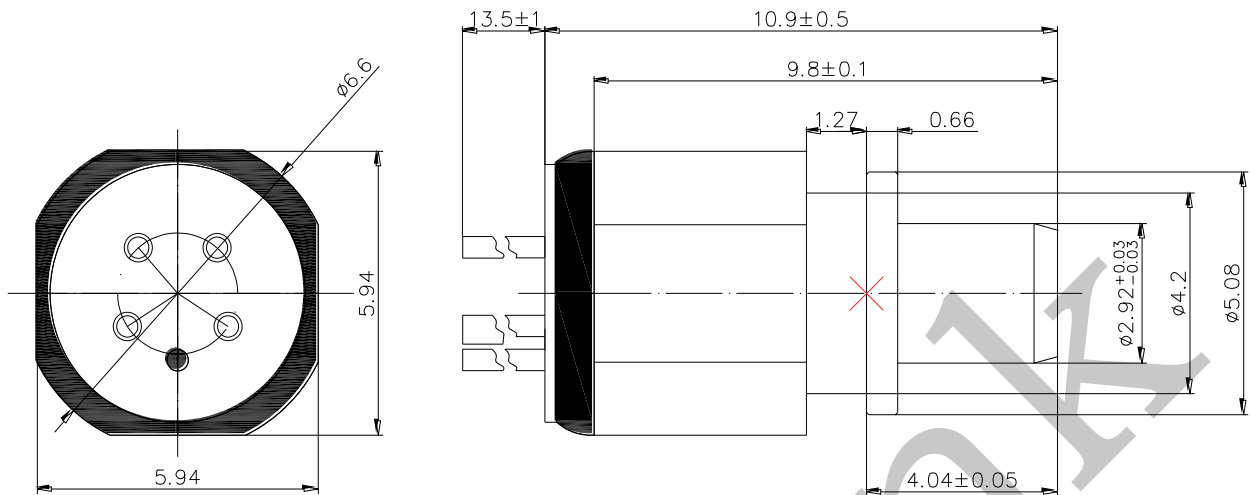
Parameter	Symbol	Min	Max	Unit
Operating Temperature	Top	0	85	°C
Storage Temperature	Tstg	-40	85	°C
Power Supply Voltage	Vp	-0.5	5	V
Optical Power	Pm	—	5	dBm
Soldering temperature	Stemp	—	260/10	°C/Sec

### Electrical and optical characteristics

( MMF(50/125μm), Tc=+25°C, unless otherwise noted.)

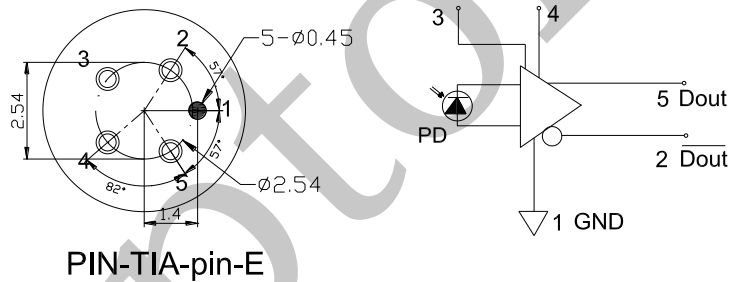
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Wavelength	$\lambda$	840	850	860	nm	
Supply Current	Icc	—	27	34	mA	Vcc=3.3V
Supply Voltage	V	2.97	3.3	3.63	V	
Responsivity	R	0.45	0.50		A/W	$\lambda=850\text{nm}$
Sensitivity	S	—	—	-10.5	dBm	$\lambda=850\text{nm}@10.3125\text{G}$ PRBS=231-1,BER=10-12,ER=4.5~5.0dB

## Package dimension



## Pin Assignment

TYPE: E



## Nomenclature



Order	Parameter	Detailed Description
A	Date rate	S=16Gbps
B	Wavelength	2=850nm
C	Voltage	3=3.3V
D	Pin Type	E= pin-E
E	Fiber Type	M=MM
F	RX Chip Type	EO=Eoptolink
G	TIA Type <sup>*Note4</sup>	GF=GN1068
H	Connector Type	J=Self-focusing with Lens

## Precaution

- ◆ The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- ◆ Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- ◆ Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

## Obtaining Document

You can visit our website:

<http://www.eoptolink.com>

Or contact Eoptolink Technology Inc., Ltd. listed at the end of the documentation to get the latest documentation.

## Revision History

Version	Initiated	Reviewed	Approved	Revision History	Release Date
Va-1	Zore.Zhao	James.Liu	Vincent.Yu	The initial	2020-7-14

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