

Features

- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability
- Pigtail type available as an option

Applications

- Digital and analog optical VSR communications
- Optical LAN
- OE converters

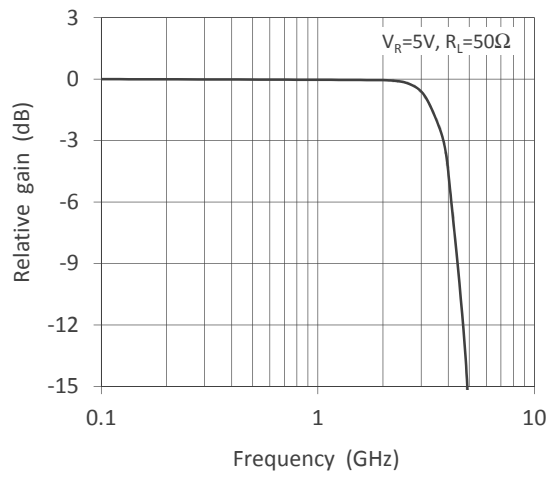
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	V	
Maximum optical power input	P_{imax}	10	mW	
Operating temperature	T_{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85	°C	Avoid dew condensation

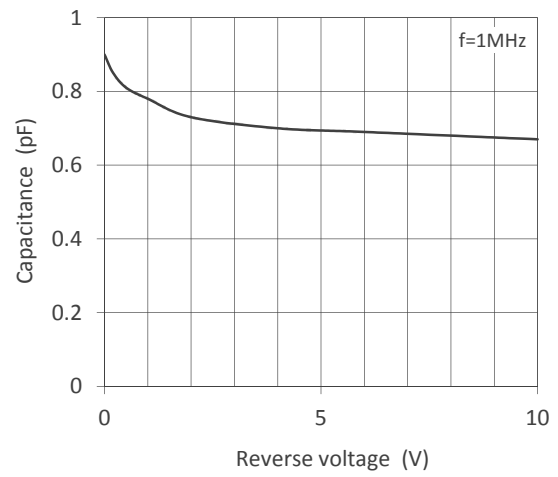
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active diameter	D	80			μm	
Bandwidth	BW	3.5	4.0	-	GHz	$V_R=5V$, $R_L=50\Omega$, $P_{in}=-10dBm$, small signal modulation
Responsivity	R	0.50	0.55	-	A/W	$V_R=5V$, $\lambda=850nm$
Dark current	I_D	-	30	160	pA	$V_R=5V$
Chip capacitance	C_{chip}	-	0.4	0.5	pF	$V_R=5V$, $f=1MHz$
Total capacitance	C_t	-	0.95	1.10	pF	$V_R=5V$, $f=1MHz$

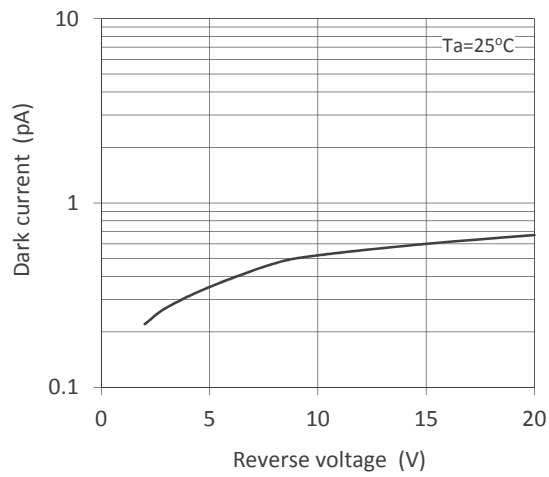
Frequency Response



Capacitance - Reverse Voltage



Dark Current - Reverse Voltage



- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



KYOSEMI CORPORATION

<http://www.kyosemi.co.jp/>

Headquarters : 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Tokyo Sales Office: 24th Sky Bldg.2F, 1-34-3 Shinjuku Shinjuku-ku, Tokyo 160-0022 Japan

TEL: +81-3-5312-5360

Kansai Sales Office: 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Kyosemi Opto America Corp: 4655 Old Ironsides Suite 230 Santa Clara, California 95054 USA

TEL: +1-408-492-9361

Eniwa Operation: 385-31 Toiso Eniwa-shi, Hokkaido 061-1405 Japan

TEL: +81-123-34-3111

Kamisunagawa Operation: 70-1 Kamisunagawa Kamisunagawa-cho Sorachi-gun, Hokkaido 073-0200 Japan

TEL: +81-125-62-3611