OKI Electronic Components OF3604N-F5

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1310 nm SMT Avalanche Photo Diode Module with Single Mode Fiber

GENERAL DESCRIPTION

The surface mount type APD-Preamp module is a avalanche photo diode coupled to a single mode fiber with a pigtail. It is designed for STM16/OC48.

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{cc}	+6	V
Maximum Input Power	Pomax	-3	dBm
Forward Current	I _F	5	mA
Reverse Current	I _R	0.5	mA
Operating Case Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
Lead Soldering Temperature	_	260 (10 sec.)	°C

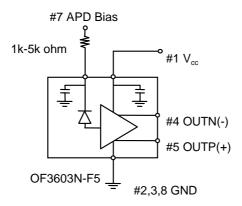
OPTICAL AND ELECTRICAL CHARACTERISTICS

(Ta = -40 to 85°C, V_{cc} = +3.3 V, λ = 1310 nm, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Supply Current	I _{cc}	_	_	26	50	mA
Reverse Breakdown Voltage	V_{BR}	I _D = 10 μA	40	70	90	V
Temperature Efficiency of V _{BR}		-40 to +85 °C	_	0.20	_	%/°C
Dark Current	I_D	$V_R = V_{BR} \times 0.9$	_	20	_	nA
Sensitivity		10 ⁻¹⁰ BER (Note 1), M = 10	-28	-31	_	dBm
Over Load		Note 2	-6	_	_	dBm
Bandwidth	BW	-3 dB, Pin = -30 dBm, Fr = 3MHz	1.5	_	_	GHz
Responsivity		Differential, Pin = -30 dBm, M = 10	12.3	15.2	_	kV/W
Maximum Output Voltage		Differential	185	250	415	mV_{pp}

Note:1) Data rate:2.5G bps;data sequence:PRBS 2²³-1

Note 2: In the case that you put a resistance outside of module with 1K-5Kohm in serial, you can get -6

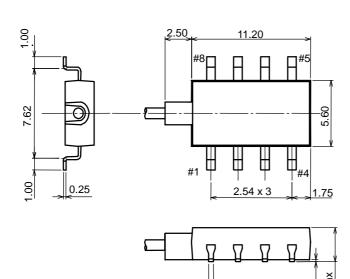


CONNECTOR AND FIBER SPECIFICATIONS

Parameter	Specifications	Unit
Type	SM	_
Mode Field Diameter	9 ±1	mm
Code Diameter	0.9	mm
Bending Radius	20 (min)	mm
Length	Options	_
Connector	FC, SC, MUJ, etc.	_
Color	Blue	_

OUTLINE DRAWING

All dimensions in millimeters Package No. (Unit: mm)



0.46

Pin Description		
No.	Function	
1	V _{CC}	
2	GND	
3	GND	
4	OUTP(+)	
5	OUTN(-)	
6	NC	
7	APD Bias	
8	GND	

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