



FEATURES

- > APD with 0.04 mm² active area
- > 230 μm diameter active area
- > High gain at low bias voltage
- > Fast rise time, low capacitance
- > Optimum gain: 50-60

APPLICATIONS

- > Laser range finder
- > High speed photometry
- > High speed optical communications
- > Medical equipment



Absolute Maximum Ratings

ITEMS	SYMBOL	RATINGS	UNIT
Operating temperature	Topr.	-40~+100	°C
Storage temperature	Tstg.	-20~+70	°C
Gain (I _{PO} = 1 nA)	Mmax	200	
Peak DC current	I _{PEAK}	0.25	mA
Soldering temperature(time)	Ts(10s)	260	°C



Electrical & Optical Characteristics (Ta= 25 °C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Active diameter				230		μm
Dark current	I _d	M=100		0.3	1.0	nA
Capacitance	C	M=100		1.2		pF
Reponsivity		M=100, λ=800nm	45	50		A/W
Reponsivity		M=100, λ=635nm	30	32		A/W
Responsivity, preliminary		M=100, λ=650nm	30	35		A/W
Rise time	Tr	M=100, λ=905nm, R _L =50Ω,		0.18		ns
Cut- off frequency		-3dB		2		GHz
Breakdown voltage	V _{BR}	IR = 2 μA, V _{BR} - binning available*	80		160	V
Temperature coefficient		Change of V _{BR} with temperature		0.45		V/K
Excess noise factor		M=100		2.2		
Excess noise index		M=100		0.2		

* please add a "01" to the order number for VBR-class 80V- 120V and a "02" for VBR-class 120V- 160V

产品服务

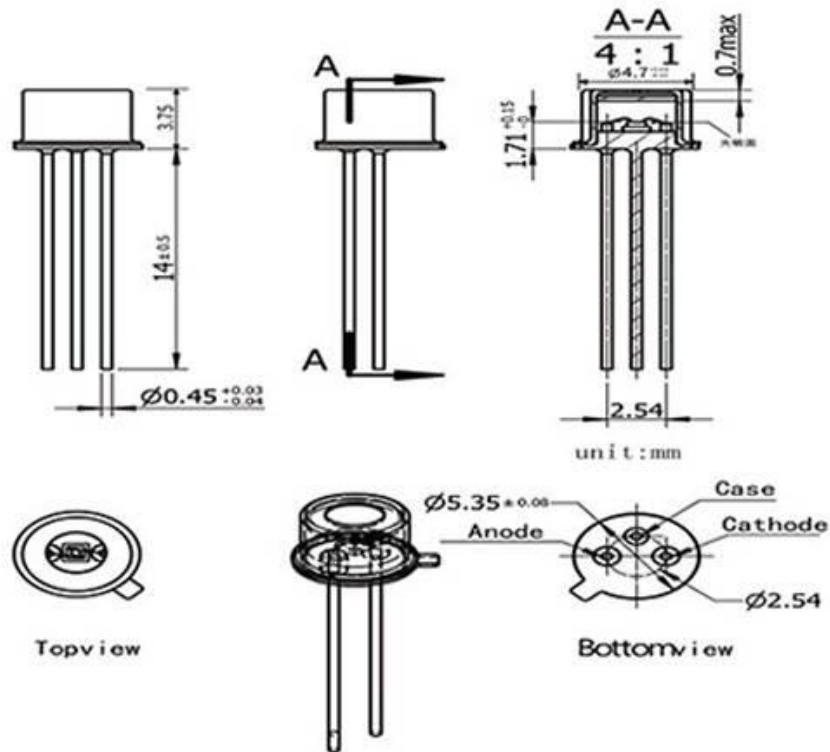
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T0-46 封装尺寸、引脚定义



产品服务

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