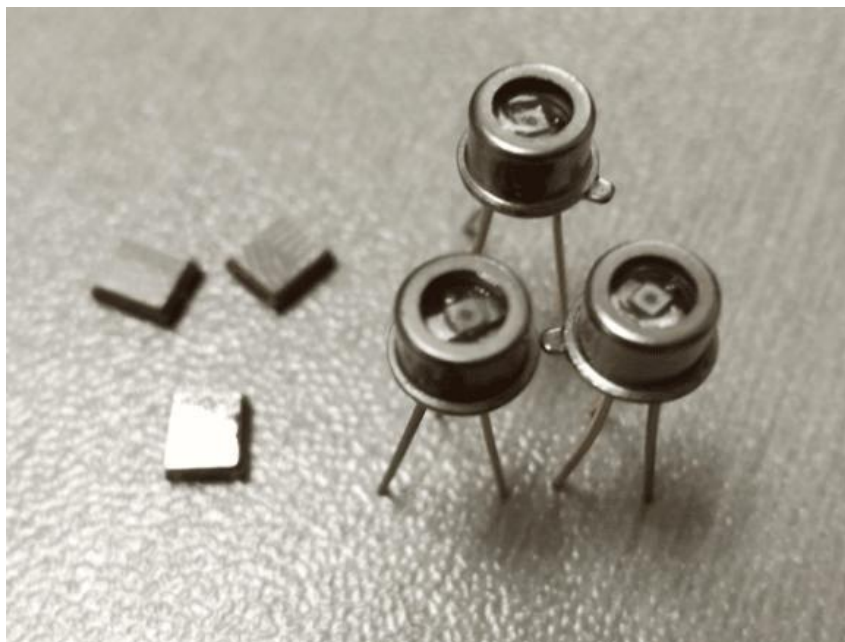


Silicon Si avalanche photodiode 905nm (Active area 0.5mm LCC3)



● Product Description

Silicon avalanche photodiode, spectral response range from visible light to near infrared, peak response wavelength 905nm. Large photosensitive surface, high speed response, high gain, low noise.

● Product features

Front-illumination planar chip structure、High-speed response、High gain、

Low junction capacitance、 Low noise

● Part Number

MP-APD-B-S-905-0.5-L

● Application area

Laser ranging、 Laser radar、 Laser warning

● Core parameters

Spectral Response Range	Active area	Package Method
400-1100nm	0.5mm	LCC3

● General Parameters

Parameter

Photoelectric performance (@ $T_a=22\pm3^{\circ}\text{C}$)

PN#	Spectral response range (nm)	Peak response wavelength (nm)	Responsivity	Dark current M=100(nA)		Response time (ns)	Operating voltage temperature coefficient (V/ $^{\circ}\text{C}$)	Total capacitance (pF)	Breakdown voltage(V)	
				Typical	Max.				Min.	Max.
MP-APD-B-S-905-0.23-TO46	400~1100	905	55	0.2	1	0.6	0.9	1.0	130	220
MP-APD-B-S-905-0.5-TO46				0.4	1			1.2		
MP-APD-B-S-905-0.8-TO46				0.8	2			2.0		
MP-APD-B-S-905-0.23-L				0.2	1			1.0		
MP-APD-B-S-905-0.5-L				0.4	1			1.2		

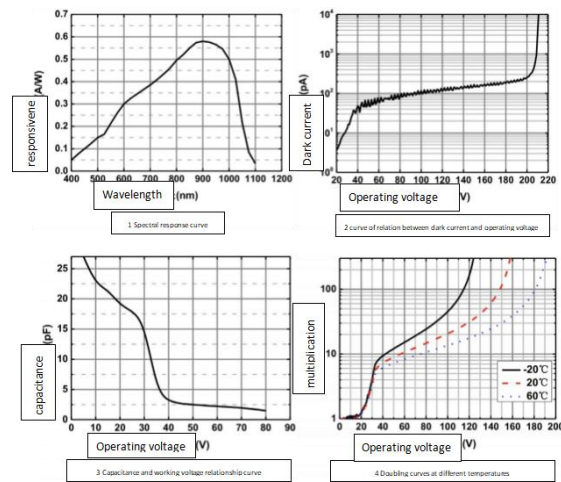
Structure/Max. absolute rated value

PN#	Pack age met hod	Activ e area(mm)	Opera ting volta ge (V)	Operati ng temper ature (°C)	Storage temper ature (°C)	Solderi ng temper ature (°C)	Forw ard curr ent (mA)	Power dissip ation (mW)
MP-APD-B-S-905- 0.23-TO46	TO-4 6	0.23	0.9× V BR	-40~85	-45~ 100	260	0.25	100
MP-APD-B-S-905- 0.5-TO46	TO-4 6	0.50						
MP-APD-B-S-905- 0.8-TO46	TO-4 6	0.80						
MP-APD-B-S-905- 0.23-L	LCC3	0.23						
MP-APD-B-S-905- 0.5-L	LCC3	0.50						

PN

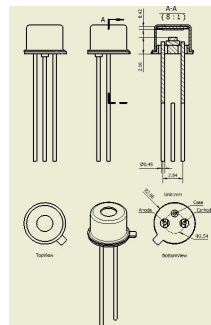
Name	PN#	Description
Silicon Avalanche Photodiode	MP-APD-B-S-905-0.23-TO46	Spectral response range: 400-1100nm Peak response wavelength: 905nm Photosensitive surface diameter: 0.23mm Package: TO46
Silicon Avalanche Photodiode	MP-APD-B-S-905-0.5-TO46	Spectral response range: 400-1100nm Peak response wavelength: 905nm Photosensitive surface diameter: 0.50mm Package: TO46
Silicon Avalanche Photodiode	MP-APD-B-S-905-0.8-TO46	Spectral response range: 400-1100nm Peak response wavelength: 905nm Photosensitive surface diameter: 0.80mm Package: TO46
Silicon Avalanche Photodiode	MP-APD-B-S-905-0.23-L	Spectral response range: 400-1100nm Peak response wavelength: 905nm Photosensitive surface diameter: 0.23mm Package: LCC3
Silicon Avalanche Photodiode	MP-APD-B-S-905-0.5-L	Spectral response range: 400-1100nm Peak response wavelength: 905nm Photosensitive surface diameter: 0.50mm Package: LCC3

Typical characteristic curve



Package shape, size and pin definition:

APD-SI-905-2/5/8-T046 (three-pin and two-pin packages)



APD-SI-905-2/5-LCC3

