

800-2600nm High-Speed InGaAs PIN Photodiode with 1.5mm T039 Sealed Dome Lens



● Product Description

The MP-CPD-B-I-8M1.5, with a sensitivity wavelength range of 800nm to 2600nm, is a high-sensitivity and highly reliable product series, making it ideal for optical communication equipment. Customers can customize different packaging types.



● Product features

Fast response speed、 TO-39 sealed dome lens packaging、 1.5mm Φ
 effective area / high sensitivity、 Spectral range: 800nm - 2600nm

● Part Number

MP-CPD-B-I-8M1.5

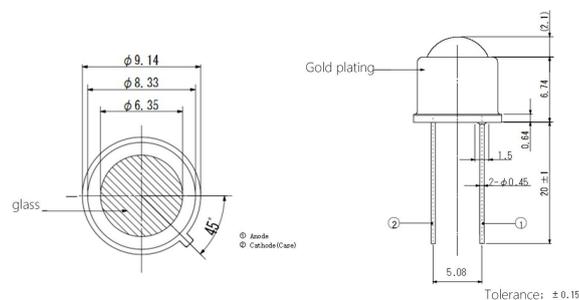
● Application area

High-speed optical communication 、 Industrial control 、 Gas/water
 analysis 、 Laser ranging、 Medical

● Core parameters

Wavelength	Active Area	Responsivity
800-2600nm	1.5mm	1.24A/W@2400nm

● Dimension Drawing





● General Parameters

Absolute Maximum Rated Parameters (Ta=25°C):

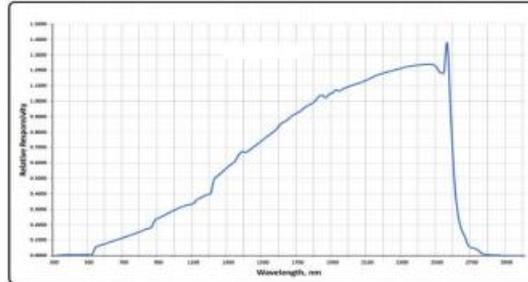
Parameter	Symbol	Main Value	Unit
Effective Photosensitive Area Diameter	Φ	1.5	mm
Operating Temperature Range	Topr	40 to +85	°C
Storage Temperature Range	Tstg	40to +125	°C

Photonic Parameters (Ta = 25°C):

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Breakdown Voltage	V_R	$I_R=100\mu A$	--	--	1	V
Sensitivity Range	λ	$V_R=0V$	800	--	2600	nm
Dark Current	I_D	$V_R=0V$	--	150	--	nA
Dark Current	I_D	$V_R=1V$	--	350	--	μA
Responsivity	R	$\lambda=2400nm$	--	1.24	--	A/W
Shunt Resistance	R_S	$V_R=10mV$	--	1.25	--	kOhm
Quantum Efficiency	QE	$\lambda=1840nm$	--	72	--	%
Capacitance	C	$V_R=0V$	--	1500	--	pF
Capacitance	C	$V_R=1V$	--	100	--	pF



Spectral Response Curve:



Quantum Efficiency Curve:

