

1x4 25 Gbps 850 nm PIN Array

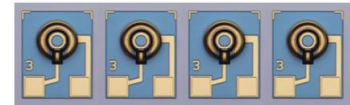
L-CR-IM00-01

Part Number: L-CR-IM00-01

Applications: 100 Gbps

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Value
Forward Current	I_F	mA	10
Reverse Voltage	V_R	V	40
Reverse Current	I_R	mA	1
Operating Temperature	T_{op}	°C	0 - 90
Storage Temperature	T_{stg}	°C	-40 - 100



Electro-optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Aperture	D	μm		32		
Responsivity	R	A/W		0.5		$V_R = 5\text{ V}$ $\lambda = 850\text{ nm}$
Dark Current	I_D	nA		0.1	1.0	$V_R = 5\text{ V}$
Breakdown Voltage	V_B	V	50			$I_R = 1\text{ }\mu\text{A}$
Capacitance	C	pF		0.07	0.1	$V_R = 2\text{ V}$ $f = 1\text{ MHz}$
Peak Wavelength	λ	nm		850	860	

Chip configuration:

- Both anode and cathode contacts on top (epi) surface.
- Dimension: 300 μm (width) x 1000 μm (length) x 130 μm (thickness) with 250μm pitch
Tolerance: +/-12.5μm
Per channel dimension: 250 μm (width) x 300 μm (length)
- Bond pad size: 60 x 60 μm square
- P-bond pad on left