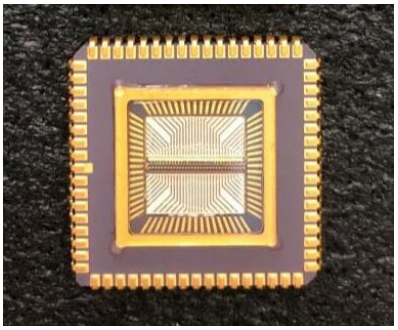
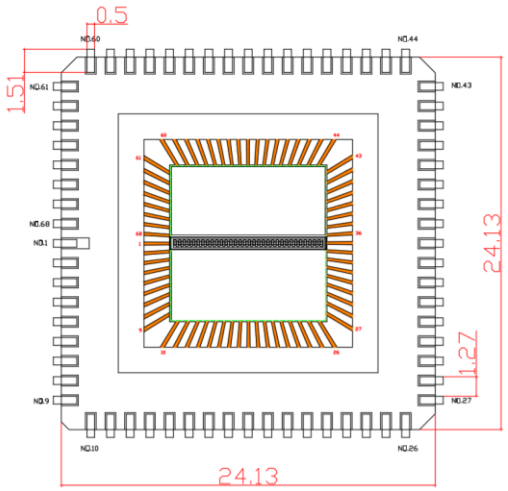
Red Enhanced linear photodiode

Array (1*64)





NOTES:

All dimension are in millimeters.

Description

The OSA1512-64 PIN is a common anode, red enhaced linear array 64 elements silicon photodiode available in a ceramic package And cover red light antireflective glass on it.

This sensor is common anode, output cathode signal.

Applications

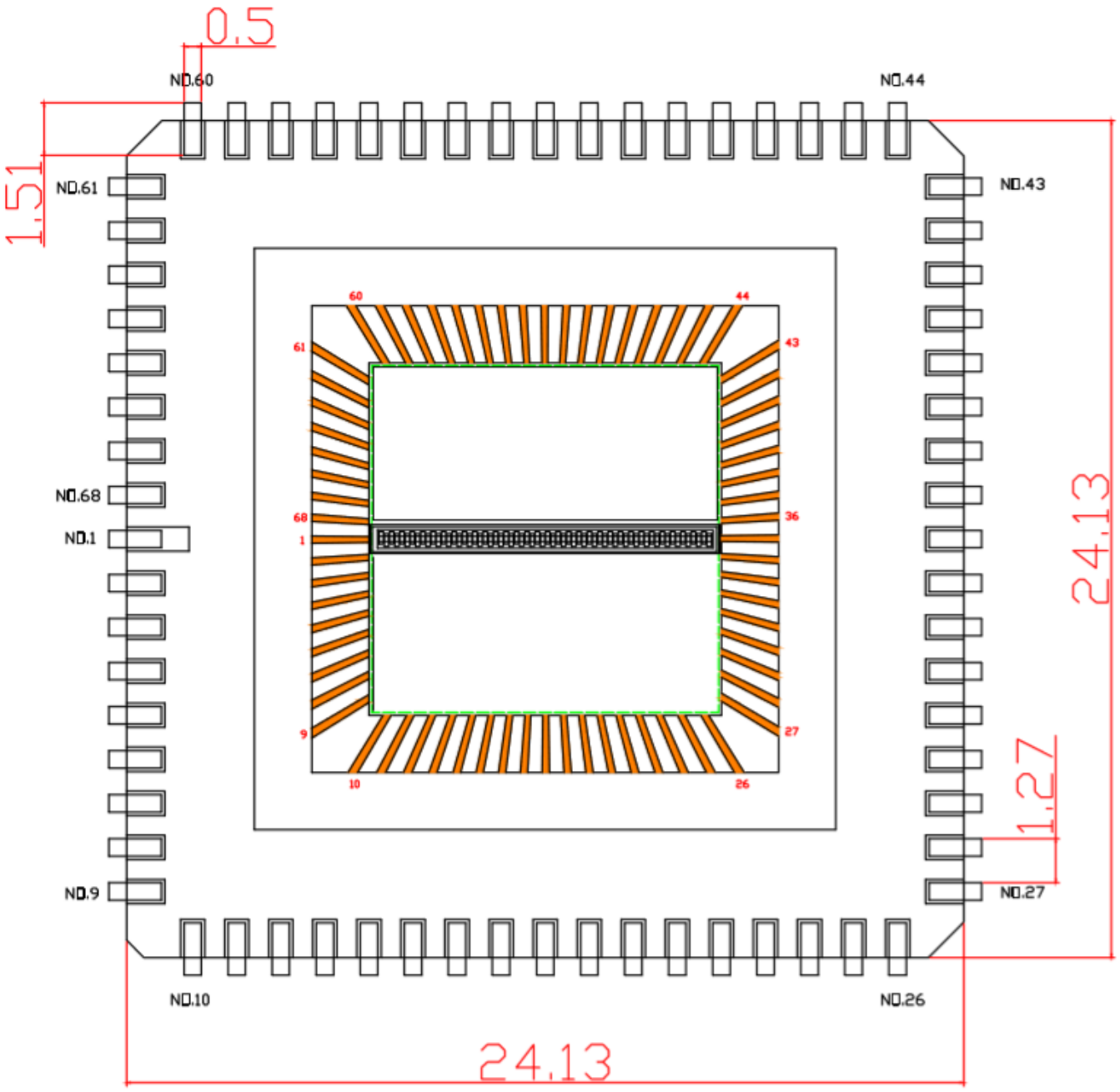
* Laser range finder, Lidar, distance measurment

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Active diameter	A			150*120		um/pixel
Gap/ Separation（center to center）				150		um
Pitch		Element to element		30		um
Total chip size				860*10040		um
Response time					5	ns
Reverse breakdown voltage	$V_{(BR)}$		20			V
Junction Capacitance	C_J	V_{BR}=-10V			3	pF
Photo sensitivity@M-=10	S_R	λ_p=650nm	0.30		10.4	A/W
		λ_p=1.064um	0.40			
Spectral Application Range	λ_{range}		400	-	1100	nm
Spectral Response-Peak	λ_p			940		nm
Dark Current		V_{BR}=-20V			10	nA
Operating temperature		-45~+80℃				
Storage temperature		-80~+125℃				

OTRON ELECTRONIC TECHNOLOGY CO., LTD
TEL:+86-21-54971821
FAX:+86-21-54971823
EMAIL: frank.shuai@e-otron.com
http://www.e-otron.com

OUTLINE DRAWING (mm):



PIN LEGS:

PIN NO.	FUNC	PIN NO.	FUNC	PIN NO.	FUNC	PIN NO.	FUNC
1	HV	18	PD34	35	N/C	52	PD31
2	PD2	19	PD36	36	PD63	53	PD29
3	PD4	20	PD38	37	PD61	54	PD27
4	PD6	21	PD40	38	PD59	55	PD25
5	PD8	22	PD42	39	PD57	56	PD23
6	PD10	23	PD44	40	PD55	57	PD21
7	PD12	24	PD46	41	PD53	58	PD19
8	PD14	25	PD48	42	PD51	59	PD17
9	PD16	26	PD50	43	PD49	60	PD15
10	PD18	27	PD52	44	PD47	61	PD13
11	PD20	28	PD54	45	PD45	62	PD11
12	PD22	29	PD56	46	PD43	63	PD9
13	PD24	30	PD58	47	PD41	64	PD7
14	PD26	31	PD60	48	PD39	65	PD5
15	PD28	32	PD62	49	PD37	66	PD3
16	PD30	33	PD64	50	PD35	67	PD1
17	PD32	34	N/C	51	PD33	68	N/C