

DATA SHEET

DESCRIPTION	NPN PHOTO TRANSISTOR
APPLICATION	PHOTO SENSOR
ISSUED DATE	2026-01-02



Opto Device Technology

Photo Transistor Specification

No.	Device Name	Chip Specification						Application	Remarks
		Chip Size	Thickness	Passivation	Active Area	Base Pad Size	Emitter Pad Size		
		(mm×mm) (mil×mil)	(μ m) (mil)	(Material)	(mm×mm) (mil×mil)	(μ m× μ m) (mil×mil)	(μ m× μ m) (mil×mil)		
1	OST-1041	0.415*0.415 (16.34*16.34)	280 (11.02)	Silicon Nitride	0.32*0.32 (12.60*12.60)	70*70 (2.76*2.76)	138*138 (5.43*5.43)	NPN PTR	
2	OST-3041	0.415*0.415 (16.34*16.34)	200 (7.87)	Silicon Nitride	0.32*0.32 (12.60*12.60)	70*70 (2.76*2.76)	138*138 (5.43*5.43)	Low Saturation	
3	OST-1046	0.46*0.46 (18.11*18.11)	280 (11.02)	Silicon Nitride	0.35*0.35 (13.78*13.78)	75*75 (2.95*2.95)	ϕ 135 (ϕ 5.31)	NPN PTR	
4	OST-3046	0.46*0.46 (18.11*18.11)	200 (7.87)	Silicon Nitride	0.35*0.35 (13.78*13.78)	75*75 (2.95*2.95)	ϕ 135 (ϕ 5.31)	Low Saturation	
5	OST-3051	0.51*0.51 (20.08*20.08)	200 (7.87)	Silicon Nitride	0.381*0.381 (15.00*15.00)	60*60 (2.36*2.36)	ϕ 160 (ϕ 6.30)	Low Saturation	
6	OST-1052	0.45*0.60 (17.72*23.62)	280 (11.02)	Silicon Nitride	0.31*0.46 (12.20*18.11)	60*60 (2.36*2.36)	ϕ 130 (ϕ 5.12)	NPN PTR	
7	OST-3052	0.45*0.60 (17.72*23.62)	200 (7.87)	Silicon Nitride	0.31*0.46 (12.20*18.11)	60*60 (2.36*2.36)	ϕ 130 (ϕ 5.12)	Low Saturation	
8	OST-1060	0.60*0.60 (23.62*23.62)	280 (11.02)	Silicon Nitride	0.47*0.47 (18.50*18.50)	60*60 (2.36*2.36)	ϕ 130 (ϕ 5.12)	NPN PTR	
9	OST-3060	0.60*0.60 (23.62*23.62)	200 (7.87)	Silicon Nitride	0.47*0.47 (18.50*18.50)	60*60 (2.36*2.36)	ϕ 130 (ϕ 5.12)	Low Saturation	
10	OST-1061	0.61*0.61 (24.02*24.02)	280 (11.02)	Silicon Nitride	0.45*0.45 (17.72*17.72)	90*90 (3.54*3.54)	155*155 (6.10*6.10)	NPN PTR	
11	OST-3061	0.61*0.61 (24.02*24.02)	200 (7.87)	Silicon Nitride	0.45*0.45 (17.72*17.72)	90*90 (3.54*3.54)	155*155 (6.10*6.10)	Low Saturation	
12	OST-1062	0.62*0.62 (24.41*24.41)	280 (11.02)	Silicon Nitride	0.46*0.46 (18.11*18.11)	100*100 (3.94*3.94)	ϕ 130 (ϕ 5.12)	NPN PTR	
13	OST-3062	0.62*0.62 (24.41*24.41)	200 (7.87)	Silicon Nitride	0.46*0.46 (18.11*18.11)	100*100 (3.94*3.94)	ϕ 130 (ϕ 5.12)	Low Saturation	
14	OST-1080	0.80*0.80 (31.50*31.50)	280 (11.02)	Silicon Nitride	0.64*0.64 (25.20*25.20)	100*100 (3.94*3.94)	ϕ 140 (ϕ 5.51)	NPN PTR	
15	OST-3080	0.80*0.80 (31.50*31.50)	200 (7.87)	Silicon Nitride	0.64*0.64 (25.20*25.20)	100*100 (3.94*3.94)	ϕ 140 (ϕ 5.51)	Low Saturation	
16	OST-1090F	0.90*0.90 (35.43*35.43)	150 (5.91)	Silicon Nitride	0.78*0.78 (30.70*30.70)	120*120 (4.72*4.72)	ϕ 300 (ϕ 11.81)	FLIP TYPE NPN PTR	
17	OST-1106	1.06*1.06 (41.73*41.73)	280 (11.02)	Silicon Nitride	0.90*0.90 (35.43*35.43)	110*110 (4.33*4.33)	ϕ 130 (ϕ 5.12)	NPN PTR	
18	OST-3106	1.06*1.06 (41.73*41.73)	200 (7.87)	Silicon Nitride	0.90*0.90 (35.43*35.43)	110*110 (4.33*4.33)	ϕ 130 (ϕ 5.12)	Low Saturation	
19	OST-3052D	1.20*0.45 (47.24*17.72)	200 (7.87)	Silicon Nitride	0.31*0.46 (12.20*18.11)	60*60 (2.36*2.36)	ϕ 130 (ϕ 5.12)	Low Saturation	
20	OST-1061D	1.22*0.61 (48.03*24.02)	280 (11.02)	Silicon Nitride	0.45*0.45 (17.72*17.72)	90*90 (3.54*3.54)	155*155 (6.10*6.10)	NPN PTR	
21	OST-3061D	1.22*0.61 (48.03*24.02)	200 (7.87)	Silicon Nitride	0.45*0.45 (17.72*17.72)	90*90 (3.54*3.54)	155*155 (6.10*6.10)	Low Saturation	
22	OST-1065BD	0.65*0.65 (25.60*25.60)	280 (11.02)	Silicon Nitride	0.51*0.51 (20.08*20.08)	90*250 (3.54*9.84)	130*130 (5.12*5.12)	HIGH POWER NPN PTR	
23	OST-1065BD-BPF	0.65*0.65 (25.60*25.60)	280 (11.02)	BAND PASS FILTER	0.51*0.51 (20.08*20.08)	90*250 (3.54*9.84)	130*130 (5.12*5.12)	BAND PASS FILTER HIGH POWER NPN PTR	
24	OST-3028NB	0.28*0.28 (11.02*11.02)	200 (7.87)	Silicon Oxide	0.16*0.16 (6.29*6.29)	-	ϕ 105 (ϕ 4.13)	NO-BASE PAD NPN PTR	
25	OST-3041NB	0.41*0.41 (16.14*16.14)	200 (7.87)	Silicon Oxide	0.29*0.29 (11.42*11.42)	-	ϕ 134 (ϕ 5.27)	NO-BASE PAD NPN PTR	

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		(mm×mm) (mil×mil)	(μm) (mil)		(mm×mm) (mil×mil)	(μm×μm) (mil×mil)	(μm×μm) (mil×mil)		
26	OST-3046NB	0.46*0.46 (18.11*18.11)	200 (7.87)	Silicon Oxide	0.34*0.34 (13.38*13.38)	-	φ 134 (φ 5.27)	NO-BASE PAD NPN PTR	
27	OSE-1065	0.65*0.65 (25.60*25.60)	280 (11.02)	Silicon Nitride	0.51*0.51 (20.08*20.08)	φ 100 (φ 3.94)	130*130 (5.12*5.12)	NPN DARLINGTON PTR	
28	OSE-3065	0.65*0.65 (25.60*25.60)	200 (7.87)	Silicon Nitride	0.51*0.51 (20.08*20.08)	φ 100 (φ 3.94)	130*130 (5.12*5.12)	NPN DARLINGTON PTR Low Saturation	
29	OSE-1065-BPF	0.65*0.65 (25.60*25.60)	280 (11.02)	BAND PASS FILTER	0.51*0.51 (20.08*20.08)	φ 100 (φ 3.94)	130*130 (5.12*5.12)	BAND PASS FILTER NPN DARLINGTON PTR	



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