

DATA SHEET

DESCRIPTION	POWER TRANSISTOR
APPLICATION	Ballast/SMPS/C-TV/Charger
ISSUED DATE	2026-01-02



Opto Device Technology

Power Transistor Specification

No.	Device Name	Chip Specification						Application	Remarks
		Chip Size [mm×mm]	Thickness [μm]	BV _{CEO} [V]	BV _{CE0} [V]	I _C [A]	P _C [W]		
1	OTIP41	1.78*1.78	220	100	100	6	65	Ignition	
2	OPTD1408	1.78*1.78	220	80	80	4	25	Amplifier	
3	OPTC13003V1D	1.34*1.34	240	350	200	2	15	Ballast	Built-in Diode
4	OPTC13003LD6	1.6*1.6	240	350	200	3	20	Ballast	Built-in Diode
5	OPTC13003LD8	1.8*1.8	240	350	200	4	30	Ballast	Built-in Diode
6	OPTC13005LD1	2.0*2.0	240	350	200	5	40	Ballast	Built-in Diode
6	OPTC406	2.8*2.8	220	380	180	7	60	Amplifier/SMPS	
8	OPTC3320	5.0*5.0	252	500	400	15	80	SMPS	
9	OPTC13001A	0.83*0.83	252	700	400	0.2	10	Ballast	
10	OPTC13042	0.83*0.83	252	500	300	0.2	10	LED SMPS	
11	OPTC13002AG	1.044*1.044	252	700	400	0.2	10	Ballast	
12	OPTC13002B	1.18*1.18	252	700	400	0.8	10	Ballast	
13	OPTC13002HVB	1.18*1.18	252	700	480	0.8	10	Ballast	
14	OPTC13003M	1.31*1.31	252	700	400	1	10	Ballast	
15	OPTC5303MD	1.31*1.31	252	700	400	1	10	Ballast	Built-in Diode
16	OPTC13003E	1.4*1.4	252	700	400	1.5	20	Ballast	
17	OPTC3120D	1.48*1.48	252	800	450	1	20	Charger	Built-in Diode
18	OPTC13003	1.62*1.62	252	700	400	1.5	20	Ballast	
19	OPTC13003B	1.56*1.56	252	700	400	1.5	20	Ballast	
20	OPTC13003BH	1.56*1.56	252	700	490	1.5	20	Ballast	
21	OPTC13003F	1.56*1.56	252	700	400	1.5	20	Ballast	
22	OPTC5303FD	1.56*1.56	252	700	400	1.5	20	Ballast	Built-in Diode
23	OPTC13003G	1.726*1.726	252	700	400	1.5	20	Ballast	
24	OPTC13004A	1.84*1.84	252	700	400	2	30	Ballast	
25	OPTC5304AD	1.84*1.84	252	700	400	2	30	Ballast	Built-in Diode
26	OPTC13004	2.06*2.06	252	700	400	3	40	Ballast	
27	OPTC5304D	2.06*2.06	252	700	400	3	40	Ballast	Built-in Diode
28	OPTC13005E	2.35*2.35	252	700	400	4	60	Ballast	
29	OPTC5305ED	2.35*2.35	252	700	400	4	60	Ballast	Built-in Diode
30	OPTC5315ED	2.35*2.35	252	800	400	4	60	Ballast	Built-in Diode
31	OPTC13005	2.58*2.58	252	700	400	4	75	Blst/SMPS	
32	OPTC5305D	2.58*2.58	252	700	400	4	75	Blst/SMPS	Built-in Diode
33	OPTC13007	3.09*3.09	252	700	400	8	80	Blst/SMPS	
34	OPTC5307D	3.09*3.09	252	700	400	8	80	Blst/SMPS	Built-in Diode
35	OPTC13007X	3.26*3.26	252	700	400	8	80	Blst/SMPS	
36	OPTC304X	3.52*3.52	252	600	400	12	100	Blst/SMPS	
37	OPTC13009	3.94*3.94	252	700	400	12	100	Blst/SMPS	
38	OPTC5309D	3.94*3.94	252	700	400	12	100	Blst/SMPS	Built-in Diode
39	OPTC13009HV	3.94*3.94	262	800	500	10	80	Blst/SMPS	
40	OPTC13009X	4.14*4.14	252	700	400	12	100	Blst/SMPS	
41	OPTC742A	2.65*2.65	262	950	400	4	70	Blst/SMPS	
42	OPTC1710C	3.2*3.2	262	900	500	7	45	Blst/SMPS	

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		Chip Size [mm×mm]	Thickness [μm]	BV _{CEO} [V]	BV _{CE0} [V]	I _C [A]	P _C [W]		
43	OPTC5321	3.2*3.2	262	800	500	5	100	Blst/SMPS	
44	OPTC13003HV	1.73*1.73	262	900	530	1.5	1.1	Ballast	
45	OPTC13003HVA	1.73*1.73	262	900	530	1.5	1.1	Ballast	
46	OPTC13003HVB	1.534*1.534	262	850	530	1.5	1.1	Ballast	
47	OPTC5802D	1.85*1.85	262	1050	550	2	30	Ballast	Built-in Diode
48	OPTC741C	1.85*1.85	262	1050	550	2	30	Ballast	
49	OPTC5804D	2.45*2.45	262	1050	550	2	30	Ballast	Built-in Diode
50	OPTC742C	2.45*2.45	262	1050	550	4	70	Ballast	
51	OPTC5555	3.2*3.2	262	1050	400	5	75	SMPS	
52	OPTC1203E	3.3*3.3	265	1100	550	5	100	Ballast	
53	OPTC5027A	3.2*3.2	260	1100	800	3	50	SMPS	
54	OPTC5027	3.3*3.3	270	1100	800	3	50	SMPS	
55	OPTC5401	2.0*2.0	270	1500	800	0.5	10	SMPS	
56	OPTC5885	3.79*3.79	270	1500	800	6	30	C-TV	Damper Diode
57	OPTC1555	3.79*3.79	270	1500	800	6	50	C-TV	Damper Diode
58	OPTD1651	3.79*3.79	270	1500	800	6	60	C-TV	Damper Diode
59	OPTC5296	5.0*5.0	270	1500	800	8	60	C-TV	Damper Diode
60	OPTU508ALV	5.0*5.0	270	900	515	8	125	C-TV	
61	OPTU508A	5.0*5.0	270	1500	800	8	125	C-TV	
62	OPTC5299LV	5.60*6.80	270	900	500	10	70	C-TV	
63	OPTC5299	5.60*6.80	270	1500	800	10	70	C-TV	
64	OPTC5578LV	7.0*7.5	300	900	515	15	140	C-TV	
65	OPTC5578	7.0*7.5	300	1600	800	15	140	C-TV	
66	OPTC6920LV	7.4*7.9	270	1500	800	20	200	C-TV	
67	OPTC6920	7.4*7.9	280	1700	800	20	200	C-TV	
68	OPTC5453	8.0*10.0	300	1600	800	25	210	C-TV	
69	OPTC3997	9.0*9.0	270	1200	800	30	250	C-TV	
70	OPDC3303	1.7*1.7	250	700	400	1.5	20	Ballast	Darlington
71	OPTA93003	1.54*1.64	250	-500	-400	-1	1.5	Ballast	PNP TR
72	OPTA1941	4.27*4.27	250	-230	-230	-10	100	Amplifier	PNP TR
73	OPTA1943	4.70*4.70	250	-230	-230	-15	150	Amplifier	PNP TR
74	OPTC5198	4.27*4.27	250	230	230	10	100	Amplifier	
75	OPTC5200	4.70*4.70	250	230	230	15	150	Amplifier	
76	OPTA1941H	4.27*4.27	250	-290	-290	-7	100	Amplifier	PNP TR
77	OPTA1943H	4.70*4.70	250	-290	-290	-10	100	Amplifier	PNP TR
78	OPTC5198H	4.27*4.27	250	290	290	7	100	Amplifier	
79	OPTC5200H	4.70*4.70	250	290	-290	10	100	Amplifier	
80	OPTC23003	1.28*1.28	252	700	400	1.5	20	Ballast	
81	OPTC23003D	1.28*1.28	252	700	400	1.5	20	Ballast	Built-in Diode
82	OPTC23005	2.588*2.0	252	700	400	4	75	Blst/SMPS	
83	OPTC23005D	2.588*2.0	252	700	400	4	75	Blst/SMPS	Built-in Diode
84	OPTC4530	2.18*1.80	252	800	400	3	40	Blst/SMPS	
85	OPTC4531	2.18*1.80	252	850	450	3	40	Blst/SMPS	
86	OPTC4532	2.18*1.80	262	900	500	2	30	Blst/SMPS	