

# Katalog tranzystorów bipolarnych

Typ	Polaryzacja	Obudowa	Rysunek obudowy	V <sub>CBmax</sub>	V <sub>CEmax</sub>	V <sub>EBmax</sub>	I <sub>Cmax</sub>	T <sub>jmax</sub> [°C]	P <sub>tot</sub> *	F <sub>T</sub> [MHz]	COBmax	h <sub>FE</sub>	przy I <sub>C</sub>	Najbliższe odpowiedniki
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2N2219	NPN	TO5	A02	60V	30V	5V	800mA	175	800mWP	250M	8pF	100min	150mA	BSW54 2N2219A
2N2219A	NPN	TO5	A02	75V	50V	6V	800mA	175	800mWP	300M	8pF	100min	150mA	BSW54 2N2219A
2N2222	NPN	TO18	A01	60V	30V	5V	800mA	175	500mWP	250M	8pF	100min	150mA	BSW64 2N2222A
2N2337	PNP	TO18	A01	50V	35V	50V	100mA	200	150mWP	1M	20pF	-	-	BCY94 2N6567
2N2369	NPN	TO18	A01	40V	15V	4V	500mA	175	360mWP	500M	4pF	40/120	10mA	BSX20 2N2369
2N2905	PNP	TO5	A02	60V	40V	5V	600mA	200	600mWP	200M	8pF	100min	150mA	BFX30 2N2905A
2N2906	PNP	TO18	A01	60V	40V	5V	600mA	200	400mWP	200M	8pF	40/120	150mA	BSW24 2N2907A
2N2907	PNP	TO18	A01	60V	40V	5V	600mA	200	400MW	200M	8pF	100min	150mA	BSW24 2N2907A
2N2955	PNP GE	TO18	A01	40V	25V	3V	100mA	100	300mWP	200M	4pF	20/60	50mA	ASZ21
2N3055	NPN	TO3	A03	100V	60V	7V	15A	200	115WO	200K	-	20/70	4A	BDY20
2N3440	NPN	TO5	A02	300V	250V	7V	1A	200	1WP	15M	10pF	40/160	40mA	BUY60 2N3439
2N3553	NPN	TO39	A02	65V	40V	4V	1A	200	7WO	250M	10pF	10min	250mA	-
2N3773	NPN	TO3	A03	160V	140V	7V	30A	200	150WO	200K	-	15/60	8A	BDX50 2N3773
2N5038	NPN	TO3	A03	120V	90V	-	20A	200	140WO	60M	-	20/100	12A	2N5038
2N5401	PNP	TO92	A07	160V	150V	5V	600mA	135	310mWP	100M	6pF	60/240	10mA	-
2N5416	PNP	TO39	A02	350V	300V	6V	1A	200	10WO	15M	15pF	30/120	50mA	BFT19B
2N5878	NPN	TO3	A03	80V	80V	5V	10A	200	150WO	4M	300pF	20/100	4A	BDY24 2N3448
2N6052	PNP	TO3	A03	100V	100V	5V	12A	200	150WO	4M	500pF	750min	6A	-
2N6099	NPN	TO220	A15	70V	60V	8V	10A	150	75WO	-	-	20/80	4A	BDX73 2N6101
2N6107	PNP	TO220	A15	80V	70V	5V	7A	150	40WP	500K	-	30/150	2A	BDX78 2N6134
2N6121	NPN	TO220	A15	45V	45V	5V	4A	150	40WO	2M	-	25/100	1500mA	BD589 2N6123
2N6292	NPN	TO220	A15	80V	80V	5V	7A	150	40WO	500K	-	30/150	2A	BD589 2N6123
2N6487	NPN	TO220	A15	70V	60V	5V	15A	150	75WO	5M	-	20/150	5A	BDX72 2N6488
2N6488	NPN	TO220	A15	90V	80V	5V	15A	150	75WO	5M	-	20/100	5A	BDX72 2N6488
2N6491	PNP	TO220	A15	90V	80V	5V	15A	150	75WO	5M	-	20/150	5A	2N6491
2SA1013	PNP	TO92	A12	160V	160V	6V	1A	150	900mWP	15M	35pF	60/200	200mA	-
2SA1015	PNP	TO92	A12	50V	50V	5V	150mA	125	400mWP	80M	4pF	70/400	2mA	-
2SA1145	PNP	TO92	A12	150V	150V	5V	50mA	150	800mWP	100M	2,5pF	80/240	10mA	-
2SA1302	PNP	TO264	A15	200V	200V	5V	15A	150	150WO	25Mpt	470pF	55/160	1A	-
2SA1553	PNP	TO264	A15	230V	230V	5V	15A	150	150WO	25Mpt	25pF	55/160	1A	-
2SA708	PNP	TO39	A02	80V	60V	8V	700mA	200	800mWP	50M	45pF	80/240	50mA	BC345 2N4033
2SA733	PNP	TO92	A12	50V	40V	5V	100mA	125	250mWP	90M	12pF	40/600	1mA	BC212L
2SA940	PNP	TO220	A15	150V	150V	5V	1500mA	150	25WO	2M	55pF	40/140	500mA	BDX16 2N6214
2SA966	PNP	TO92	A12	30V	30V	5V	1500mA	150	900mWP	60M	30pF	100/320	500mA	-
2SA1010	PNP	TO220	A15	100V	100V	7V	7A	150	40WO	-	-	40/200	3A	-
2SB834	PNP	TO220	A15	60V	60V	7V	3A	150	30WO	9Mtyp	150P	60/200	500mA	-
2SC1006	NPN	TO18	A01	50V	40V	5V	30mA	150	300mWP	50M	10pF	600typ	1mA	BC109 2N930
2SC1124	NPN	X17	A16	160V	140V	5V	1A	200	5WO	-	-	50min	200mA	2N6178
2SC1127	NPN	X17	A16	-	180V	-	120mA	180	1WP	15M	-	30min	5mA	BF458
2SC1663	NPN	X17	A16	140V	140V	8V	500mA	120	950mWP	25M	30pF	60/350	100mA	2N6593
2SC1810	NPN	X17	A15	700V	300V	12V	1A	120	950mWP	6M	17pF	30/300	10mA	-
2SC1815	NPN	TO92	A12	60V	50V	5V	150mA	125	400mWP	80M	3,5pF	70/700	2mA	BC182L 2N3859A
2SC1913	NPN	TO220	A15	150V	150V	5V	1500mA	150	15WO	60M	-	65/330	150mA	BU409
2SC1923	NPN	TO92	A12	40V	30V	4V	20mA	125	100mWP	275M	1,1pF	40/200	1mA	BF369 2N3983
2SC1962	NPN	X17	A16	200V	200V	8V	500mA	120	950mWP	22M	24pF	70/350	100µA	2N6593
2SC1969	NPN	TO220	A15	60V	30V	5V	6A	175	20WO	75M	-	10/180	10mA	-
2SC1970	NPN	TO220	A15	36V	18V	4V	500mA	150	5WO	-	-	10/180	100mA	-
2SC2073	NPN	TO220	A15	150V	150V	5V	1500mA	150	25WO	2M	70pF	40/140	500mA	BU409
2SC2075	NPN	TO220	A15	80V	-	4V	4A	150	10WO	50M	40pF	25min	500mA	-
2SC2166	NPN	TO220	A15	75V	75V	5V	4A	150	12WO	-	-	35/180	100mA	-
2SC2229	NPN	TO92	A12	200V	150V	5V	50mA	150	800mWP	60M	5pF	70/240	10mA	-
2SC2230	NPN	TO92	A12	200V	160V	5V	100mA	150	800mWP	50M	7pF	120/400	10mA	-
2SC2236	NPN	TO92	A12	30V	30V	5V	1500mA	150	900mWP	60M	30pF	100/320	500mA	-
2SC2240	NPN	TO92	A12	120V	120V	5V	100mA	125	300mWP	50M	3pF	200/700	2mA	-
2SC2310	NPN	TO92	A12	55V	50V	5V	100mA	125	200mWP	115M	1,8pF	250min	2mA	-
2SC2314	NPN	TO126	A20	75V	45V	5V	1A	150	5WO	180M	25pF	60/320	500mA	-
2SC2330	NPN	SPEC	-	38V	18V	3V	6A	175	70WO	-	65pF	20/200	1A	-
2SC2331	NPN	TO220	A15	150V	100V	7V	2A	150	15WO	-	-	40/200	1A	-
2SC2333	NPN	TO220	A15	500V	400V	7V	2A	150	15WO	-	-	20/80	1A	-

\*P<sub>tot</sub>

O - przy temp. obud. +25°C, P - przy temp. powietrza +25°C, R - przy temp. radiatora +25°C

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2SC2335	NPN	TO220	A15	500V	400V	7V	7A	150	40WO	-	-	20/80	1A	-
2SC2336	NPN	TO220	A15	180V	-	5V	1500mA	150	25WO	50M	30pF	120typ	150mA	-
2SC2481	NPN	TO126	A20	150V	150V	6V	1500mA	150	20WO	20M	13pF	60/320	200mA	-
2SC2705	NPN	TO92	A12	150V	150V	5V	50mA	150	800mWP	100M	1,8pF	80/240	10mA	-
2SC2714	NPN	X12	A13	40V	30V	4V	20mA	125	100mWP	550Mtyp	1,1pF	100/200	1mA	-
2SC2785	NPN	X11	A24	60V	-	5V	100mA	125	300mWP	125M	3pF	200typ	1mA	-
2SC2914	NPN	TO3	A03	500V	400V	7V	10A	150	120WO	-	-	12min	5A	-
2SC3039	NPN	TO220	A15	500V	400V	7V	7A	150	50WO	20Mtyp	80pF	15/50	800mA	-
2SC3225	NPN	TO92	A12	40V	40V	7V	2A	150	900mWP	220Mtyp	20pF	500min	400mA	-
2SC3309	NPN	X34	A15	500V	400V	7V	2A	150	20WO	-	-	20min	100mA	-
2SC3310	NPN	X34	A15	500V	400V	7V	5A	150	30WO	-	-	12min	3A	-
2SC3331	NPN	TO92	A12	60V	50V	6V	200mA	150	500mW	200Mtyp	3pF	100/800	1mA	-
2SC3552	NPN	TO247	A15	1100V	800V	7V	12A	150	150WO	15Wtyp	215pF	10/40	800mA	-
2SC3807	NPN	SOT82	A14	30V	25V	15V	2A	150	15WO	260Mtyp	27pF	800/3200	500mA	-
2SC4029	NPN	TO264	A15	230V	230V	5V	15A	150	150WO	30Mtyp	270pF	55/160	1A	-
2SC4204	NPN	TO92	A12	30V	25V	15V	700mA	150	600mWP	270Mtyp	9pF	800/3200	50mA	-
2SC838	NPN	TO92	A12	50V	25V	5V	30mA	125	250mWP	125M	3,6pF	75typ	500µA	BC184L 2N3707
2SC845	NPN	TO5	A02	55V	30V	3V	400mA	175	3500mWO	400M	-	10/200	100mA	BSW54 2N2219A
2SC867	NPN	TO66	A17	520V	-	10V	1A	175	18WO	4M	-	40min	100mA	2N4240
2SD1140	NPN	TO92	A12	30V	30V	10V	1500mA	150	900mWP	-	-	4Ktyp	150mA	-
2SD1196	NPN	TO220	A15	110V	100V	6V	8A	150	40WO	20Mtyp	-	1500min	4A	-
2SD1398	NPN	TO247	A15	1500V	800V	7V	5A	150	120WO	3Mtyp	-	8min	1A	-
2SD1402	NPN	TO247	A15	1500V	800V	7V	5A	150	120WO	3Mtyp	-	8min	1A	-
2SD1425	NPN	TO247	A15	1500V	600V	5V	2500mA	150	80WO	3Mtyp	95pF	8min	500mA	-
2SD1426	NPN	TO247	A15	1500V	600V	5V	3500mA	150	80WO	3Mtyp	95pF	8min	500mA	-
2SD1427	NPN	TO247	A15	1500V	600V	5V	5A	150	80WO	3Mtyp	165pF	8min	1A	-
2SD1428	NPN	TO247	A15	1500V	600V	5V	6A	150	80WO	3Mtyp	165pF	8min	1A	-
2SD1431	NPN	TO247	A15	1500V	600V	5V	5A	150	80WO	3Mtyp	165pF	8min	1A	-
2SD1548	NPN	ISO218	A15	1400V	600V	5V	10A	150	50WO	3Mtyp	165pF	8min	2A	-
2SD1554	NPN	ISO218	A15	1500V	600V	5V	3500mA	150	40WO	3Mtyp	95pF	8min	500mA	-
2SD1555	NPN	ISO218	A15	1500V	600V	5V	5A	150	50WO	3Mtyp	165pF	8min	1A	-
2SD1650	NPN	ISO247	A15	1500V	800V	6V	3500mA	150	50WO	3Mtyp	-	8min	500mA	-
2SD1651	NPN	ISO247	A15	1500V	800V	6V	5A	150	60WO	3Mtyp	-	8min	1A	-
2SD1877	NPN	ISO247	A15	1500V	800V	6V	4A	150	50WO	-	-	8min	500mA	-
2SD1878	NPN	ISO247	A15	1500V	800V	6V	5A	150	60WO	-	-	8min	1A	-
2SD1879	NPN	ISO247	A15	1500V	800V	6V	6A	150	60WO	-	-	8min	1A	-
2SD1883	NPN	ISO247	A15	1500V	800V	6V	4A	150	50WO	-	-	8min	500mA	-
2SD2125	NPN	ISO218	A15	1500V	600V	5V	6A	150	50WO	3Mtyp	165pF	-	1A	-
2SD227	NPN	TO92	A12	30V	15V	5V	300mA	125	250mWP	-	-	60min	250mA	BCW36 2N3704
2SD261	NPN	TO92	A12	40V	30V	5V	700mA	125	500mWP	-	-	40min	500mA	BCW36 2N3704
2SD325	NPN	TO220	A15	35V	35V	5V	3A	150	10WO	8Mtyp	-	40/320	1A	BD437 2N5192
2SD400	NPN	TO92	A12	25V	25V	5V	1A	150	900mWP	180Mtyp	30pF	60/560	50mA	BCW36 2N4953
2SD734	NPN	TO92	A12	25V	20V	5V	700mA	150	600mWP	250Mtyp	8pF	60/560	50mA	-
2SD799	NPN	TO220	A15	600V	400V	5V	6A	150	30WO	-	35pF	600min	2A	-
2SD880	NPN	TO220	A15	60V	60V	7V	3A	150	30WO	3Mtyp	70pF	60/300	500mA	-
2SD951	NPN	TO3	A03	1500V	-	5V	3A	130	65WO	-	-	4/15	2500mA	-
2SD959	NPN	TO220	A15	130V	80V	7V	3A	150	30WO	15M	-	60/260	500mA	-
BC107	NPN	TO18	A01	50V	45V	6V	100mA	175	300mWP	150M	5pF	110min	2mA	2N929
BC107A	NPN	TO18	A01	50V	45V	6V	100mA	175	300mWP	150M	5pF	110min	2mA	2N929
BC107B	NPN	TO18	A01	50V	45V	6V	100mA	175	300mWP	150M	5pF	200min	2mA	2N929
BC107C	NPN	TO18	A01	50V	45V	6V	100mA	175	300mWP	150M	5pF	450min	2mA	2N2510
BC108	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	120min	2mA	2N929
BC108A	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	120min	2mA	2N929
BC108B	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	200min	2mA	2N929
BC108C	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	420min	2mA	2N929
BC109	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	180min	2mA	2N930
BC109A	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	120min	2mA	2N2586
BC109B	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	200min	2mA	2N930
BC109C	NPN	TO18	A01	30V	20V	5V	100mA	175	300mWP	150M	6pF	420min	2mA	2N930
BC138	NPN	TO5	A02	60V	40V	5V	1A	200	800mWP	40M	25pF	35min	10mA	BFY51 2N2297
BC147	NPN	X09	A05	50V	45V	6V	200mA	125	250mWP	150M	5pF	110min	2mA	A747
BC149	NPN	X09	A05	30V	20V	5V	200mA	125	250mWP	150M	5pF	200min	2mA	A749
BC158	PNP	X09	A05	30V	25V	5V	100mA	125	300mWP	100M	6pF	70min	2mA	-
BC159	PNP	X09	A05	25V	20V	5V	100mA	125	300mWP	100M	6pF	120min	2mA	-
BC177	PNP	TO18	A01	45V	45V	5V	100mA	175	300mWP	130M	7pF	70min	2mA	BCY70 2N3965
BC177A	PNP	TO18	A01	45V	45V	5V	100mA	175	300mWP	130M	7pF	120min	2mA	BCY71 2N3965
BC177B	PNP	TO18	A01	45V	45V	5V	100mA	175	300mWP	130M	7pF	180min	2mA	BCY71 2N3965
BC177C	PNP	TO18	A01	45V	45V	5V	100mA	175	300mWP	100M	7pF	380min	2mA	BC179 2N3965
BC178	PNP	TO18	A01	30V	25V	5V	200mA	175	300mWP	100M	7pF	70min	2mA	BCY70 2N3965
BC178A	PNP	TO18	A01	30V	25V	5V	200mA	175	300mWP	100M	7pF	120min	2mA	BCY71 2N3965
BC178B	PNP	TO18	A01	30V	25V	5V	200mA	175	300mWP	100M	7pF	180min	2mA	BCY71 2N3965
BC179	PNP	TO18	A01	25V	20V	5V	50mA	175	300mWP	100M	7pF	70min	2mA	BCY70 2N3965
BC179A	PNP	TO18	A01	25V	20V	5V	50mA	175	300mWP	100M	7pF	120min	2mA	BCY71 2N3965
BC179B	PNP	TO18	A01	25V	20V	5V	50mA	175	300mWP	100M	7pF	180min	2mA	BCY71 2N3965

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BC179C	PNP	TO18	A01	25V	20V	5V	50mA	175	300mWP	100M	7pF	380min	2mA	BCY71 2N3965
BC211	NPN	TO39	A02	80V	40V	7V	1A	175	800mWP	30M	6pF	40min	300mA	BFY51 2N2297
BC237	NPN	X10	A11	50V	45V	6V	100mA	125	300mWP	150M	5pF	110min	2mA	2N5825
BC238	NPN	X10	A11	30V	20V	5V	100mA	125	300mWP	150M	5pF	110min	2mA	2N5825
BC307	PNP	X10	A11	50V	45V	5V	100mA	125	300mWP	100M	8pF	75min	2mA	2N6015
BC308	PNP	X10	A11	30V	25V	5V	100mA	125	300mWP	100M	8pF	75min	2mA	2N6015
BC309	PNP	X10	A11	25V	20V	5V	100mA	125	300mWP	100M	8pF	125min	2mA	2N6003
BC313	PNP	TO39	A02	60V	40V	5V	1A	200	800mWP	50M	30pF	40/250	150mA	2N4037
BC327	PNP	X10	A11	50V	45V	5V	800mA	150	500mWP	60M	18pF	63min	100mA	2N5819
BC328	PNP	X10	A11	30V	25V	5V	800mA	150	500mWP	60M	18pF	63min	100mA	2N5819
BC337	NPN	X10	A11	50V	45V	5V	800mA	150	360mWP	60M	20pF	100min	100mA	2N5818
BC338	NPN	X10	A11	30V	20V	5V	800mA	150	360mWP	60M	20pF	100min	100mA	BC337 2N5818
BC368	NPN	X10	A22	25V	20V	5V	1A	150	800mWP	65M	-	85/375	500mA	BC338 2N5818
BC369	PNP	X10	A22	25V	20V	5V	1A	150	800mWP	65M	-	85/375	500mA	BC328 2N5819
BC393	PNP	TO18	A01	180V	180V	-	100mA	200	400mWP	60M	8pF	50min	2mA	2N4357
BC413	NPN	X10	A11	45V	30V	5V	100mA	150	300mWP	250M	5pF	180min	2mA	BC239 2N5827
BC414	NPN	X10	A11	50V	45V	5V	100mA	150	300mWP	250M	5pF	180min	2mA	BC239 2N5827
BC415	PNP	X10	A11	45V	35V	5V	100mA	150	300mWP	200M	5pF	120min	2mA	BC307 2N6015
BC517	NPN	X10	A11	40V	30V	10V	400mA	150	625mWP	120M	5pF	30Kmin	20mA	-
BC527	PNP	TO92	A08	60V	60V	6V	1A	150	625mWP	-	15pF	50/300	150mA	-
BC528	PNP	TO92	A08	80V	80V	6V	1A	150	625mWP	-	15pF	50/300	150mA	-
BC546	NPN	TO92	A23	80V	65V	6V	100mA	150	500mWP	200M	4,5pF	125min	2mA	BC338 2N5818
BC546A	NPN	TO92	A08	80V	65V	6V	100mA	150	500mWP	150M	-	110min	2mA	BC300 2N4410
BC546B	NPN	TO92	A08	80V	65V	6V	100mA	150	500mWP	150M	-	200min	2mA	BC300 2N5551
BC547	NPN	TO92	A23	50V	45V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC338 2N5818
BC547A	NPN	TO92	A23	50V	45V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC338 2N5818
BC547B	NPN	TO92	A23	50V	45V	6V	100mA	150	500mWP	200M	4,5pF	200min	2mA	BC337 2N5818
BC547C	NPN	TO92	A23	50V	45V	6V	100mA	150	500mWP	200M	4,5pF	420min	2mA	BC239 2N5827
BC548	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC547 2N5818
BC548A	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC547A 2N5818
BC548B	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	200min	2mA	BC548C 2N5818
BC548C	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	420min	2mA	BC547C 2N5818
BC549	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC548 2N5818
BC549A	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	110min	2mA	BC237B 2N5825
BC549B	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	200min	2mA	BC548B 2N5818
BC549C	NPN	TO92	A23	30V	30V	6V	100mA	150	500mWP	200M	4,5pF	420min	2mA	BC548C 2N5818
BC550	NPN	TO92	A08	50V	45V	5V	100mA	150	500mWP	200M	-	240min	2mA	BC457B 2N5818
BC550B	NPN	TO92	A23	50V	45V	5V	100mA	150	500mWP	150M	-	200min	2mA	BC109C 2N930
BC550C	NPN	TO92	A23	50V	45V	5V	100mA	150	500mWP	150M	-	420min	2mA	BC109C 2N930
BC556	PNP	TO92	A23	80V	65V	5V	100mA	150	500mWP	150M	8pF	75/450	2mA	BC307 2N6015
BC556A	PNP	TO92	A23	80V	65V	5V	100mA	150	500mWP	150M	8pF	125min	2mA	BC309 2N6003
BC556B	PNP	TO92	A23	80V	65V	5V	100mA	150	500mWP	150M	8pF	240min	2mA	BC556B 2N6007
BC557	PNP	X10	A11	50V	45V	-	200mA	150	300mWP	75M	-	75min	2mA	BC307 2N6015
BC557A	PNP	TO92	A08	50V	45V	5V	100mA	150	500mWP	75M	-	125min	2mA	-
BC557B	PNP	TO92	A08	50V	45V	5V	100mA	150	500mWP	75M	9pF	200min	2mA	BC556B 2N6007
BC557C	PNP	TO92	A23	50V	45V	5V	100mA	150	500mWP	75M	7pF	450min	2mA	-
BC558	PNP	TO92	A08	30V	25V	5V	100mA	150	500mWP	75M	-	75/475	2mA	-
BC558A	PNP	X10	A11	30V	25V	5V	100mA	150	500mWP	75M	7pF	125min	2mA	BC307 2N6015
BC558B	PNP	X10	A11	30V	25V	5V	100mA	150	500mWP	75M	7pF	240min	2mA	BC307B 2N6015
BC558C	PNP	X10	A11	30V	25V	5V	100mA	150	500mWP	75M	7pF	420min	2mA	BC559C 2N6007
BC559	PNP	X10	A11	30V	25V	-	200mA	150	300mWP	75M	-	125min	2mA	BC309 2N6003
BC559A	PNP	X10	A11	30V	25V	5V	100mA	150	500mWP	75M	7pF	125min	2mA	BC558A 2N6015
BC559B	PNP	X10	A11	30V	25V	5V	100mA	150	500mWP	75M	7pF	240min	2mA	BC558B 2N6015
BC559C	PNP	TO92	A08	30V	25V	5V	100mA	150	500mWP	75M	7pF	420min	2mA	- 2N6007
BC560	PNP	TO92	A23	50V	45V	5V	100mA	150	500mWP	150M	4,5pF	110min	2mA	BC309 2N6003
BC560A	PNP	TO92	A23	50V	45V	5V	100mA	150	500mWP	150M	4,5pF	125min	2mA	BC309 2N6003
BC560B	PNP	TO92	A23	50V	45V	5V	100mA	150	500mWP	150M	4,5pF	240min	2mA	BC309 2N6003
BC560C	PNP	TO92	A08	50V	45V	5V	100mA	150	500mWP	150M	4,5pF	420min	2mA	BC559C 2N6007
BC618	NPN	TO92	A23	80V	55V	12V	1A	150	625mWP	150M	4,5pF	3Kmin	1A	-
BC635	NPN	TO92	A22	45V	45V	-	1A	150	50WP	50M	-	40min	150mA	BC338 2N5818
BC636	PNP	TO92	A22	45V	45V	-	1A	150	1WP	50M	-	40min	150mA	BC338 2N5818
BC639	NPN	TO92	A22	80V	80V	-	1A	150	1WP	50M	-	40min	150mA	BC337
BC640	PNP	TO92	A22	80V	80V	-	1A	150	1WP	50M	-	40min	150mA	BC337
BC807	PNP	X12	A13	50V	45V	-	500mA	150	310mWP	50M	-	100min	500mA	-
BD127	NPN	TO126	A14	300V	250V	5V	500mA	150	20WO	-	-	30min	50mA	BD232
BD128	NPN	TO126	A14	350V	300V	5V	500mA	150	20WO	-	-	30min	50mA	BD232
BD135	NPN	TO126	A14	45V	45V	5V	1A	150	12WO	50M	-	40/250	150mA	BD169 2N4923
BD136	PNP	TO126	A14	45V	45V	5V	1A	150	12WO	50M	-	40/250	150mA	BD140 2N4920
BD137	NPN	TO126	A14	60V	60V	5V	1A	150	12WO	50M	-	40/160	150mA	BD169 2N4923
BD139	NPN	TO126	A14	80V	80V	5V	1A	150	12WO	50M	-	40/160	150mA	BD169 2N4923
BD140	PNP	TO126	A14	80V	80V	5V	1A	150	12WO	50M	-	40/250	150mA	2N4920
BD159	NPN	TO126	A14	375V	350V	5V	500mA	150	20WO	-	-	30/250	50mA	BD232
BD240	PNP	TO220	A15	55V	45V	5V	2A	150	30WO	3M	-	15min	1A	BD240C 2N6109

# Katalog tranzystorów

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BD240A	PNP	TO220	A15	70V	60V	5V	2A	150	30WO	3M	-	15min	1A	BD240C 2N6107
BD240B	PNP	TO220	A15	90V	80V	5V	2A	150	30WO	3M	-	15min	1A	BD240C 2N6475
BD241	NPN	TO220	A15	55V	45V	5V	3A	150	40WO	3M	-	25min	1A	BD241C 2N6290
BD241A	NPN	TO220	A15	70V	60V	5V	3A	150	40WO	3M	-	25min	1A	BD241C 2N6292
BD241B	NPN	TO220	A15	90V	80V	5V	3A	150	40WO	3M	-	25min	1A	BD241C 2N6473
BD241C	NPN	TO220	A15	115V	100V	5V	3A	150	40WO	3M	-	25min	1A	BD241C 2N6473
BD242	PNP	TO220	A15	55V	45V	5V	3A	150	40WO	3M	-	25min	1A	BD242C 2N6109
BD242A	PNP	TO220	A15	70V	60V	5V	3A	150	40WO	3M	-	25min	1A	BD242C 2N6107
BD242B	PNP	TO220	A15	90V	80V	5V	3A	150	40WO	3M	-	25min	1A	BD242C 2N6475
BD242C	PNP	TO220	A15	115V	100V	5V	3A	150	40WO	3M	-	25min	1A	2N6475
BD243	NPN	TO220	A15	55V	45V	5V	6A	150	65WO	3M	-	30min	300mA	BD243C 2N6487
BD243A	NPN	TO220	A15	70V	60V	5V	6A	150	65WO	3M	-	30min	300mA	BD243C 2N6487
BD243B	NPN	TO220	A15	90V	80V	5V	6A	150	65WO	3M	-	30min	300mA	BD243C 2N6488
BD243C	NPN	TO220	A15	115V	100V	5V	6A	150	65WO	3M	-	30min	300mA	2N6488
BD244	PNP	TO220	A15	55V	45V	5V	6A	150	65WO	3M	-	30min	300mA	BD244C 2N6490
BD244A	PNP	TO220	A15	70V	60V	5V	6A	150	65WO	3M	-	30min	300mA	BD244C 2N6490
BD244B	PNP	TO220	A15	90V	80V	5V	6A	150	65WO	3M	-	30min	300mA	BD244C 2N6491
BD244C	PNP	TO220	A15	115V	100V	5V	6A	150	65WO	3M	-	30min	300mA	2N6491
BD245	NPN	TOP3	A15	55V	45V	5V	15A	150	80WO	-	-	40min	1A	BD213
BD245A	NPN	TOP3	A15	70V	60V	5V	15A	150	80WO	-	-	40min	1A	BD213
BD245B	NPN	TOP3	A15	90V	80V	5V	15A	150	80WO	-	-	40min	1A	BD213
BD245C	NPN	TOP3	A15	115V	100V	5V	15A	150	80WO	-	-	40min	1A	BD213
BD249	NPN	TOP3	A15	55V	45V	5V	40A	150	125WO	-	-	25min	1500mA	BDX40 2N3772
BD249A	NPN	TOP3	A15	70V	60V	5V	40A	150	125WO	-	-	25min	1500mA	BDX40 2N3772
BD249B	NPN	TOP3	A15	90V	80V	5V	40A	150	125WO	-	-	25min	1500mA	BDX40 2N5686
BD249C	NPN	TOP3	A15	115V	100V	5V	40A	150	125WO	-	-	25min	1500mA	BDY29 2N3772
BD250	PNP	TOP3	A15	55V	45V	5V	40A	150	125WO	-	-	25min	1500mA	BD258
BD250A	PNP	TOP3	A15	70V	60V	5V	40A	150	125WO	-	-	25min	1500mA	BD258
BD250B	PNP	TOP3	A15	90V	80V	5V	40A	150	125WO	-	-	25min	1500mA	BD258
BD250C	PNP	TOP3	A15	115V	100V	5V	40A	150	125WO	-	-	25min	1500mA	BD258
BD281	NPN	TO126	A14	22V	22V	5V	4A	150	36WO	3M	-	85/350	500mA	-
BD282	PNP	TO126	A14	22V	22V	5V	4A	150	36WO	3M	-	85/350	500mA	-
BD283	NPN	TO126	A14	32V	32V	5V	4A	150	36WO	3M	-	85/350	500mA	-
BD284	PNP	TO126	A14	32V	32V	5V	4A	150	36WO	3M	-	85/350	500mA	-
BD285	NPN	TO126	A14	45V	45V	5V	4A	150	36WO	3M	-	20min	3A	-
BD286	PNP	TO126	A14	45V	45V	5V	4A	150	36WO	3M	-	20min	3A	-
BD354	NPN	TO66	A17	60V	60V	-	2A	175	-	-	-	30/300	1A	BDY71 2N3054
BD355	PNP	TO66	A17	60V	60V	-	2A	175	-	-	-	30/300	1A	BDX14 2N5954
BD534	PNP	TO220	A15	45V	45V	5V	4A	150	40WO	3M	-	40min	500mA	BD242C 2N6134
BD643	NPN	TOQ66	A27	45V	45V	5V	10A	175	70WO	1M	-	750min	4A	BDX72 2N6100
BD646	PNP	TOQ66	A27	60V	60V	5V	10A	175	70WO	1M	-	750min	4A	BDX78 2N6106
BD647	NPN	TOQ66	A27	80V	80V	5V	10A	175	70WO	1M	-	750min	4A	BDX72 2N6100
BD649	NPN	TO220	A15	100V	100V	5V	8A	150	62WO	1M	-	750min	3A	BDX72 2N6100
BD650	PNP	TO220	A15	100V	100V	5V	8A	150	62WO	1M	-	750min	3A	BDX78 2N6106
BD679	NPN	TO126	A14	80V	80V	5V	4A	150	40WO	1M	-	750min	1500mA	-
BD681	NPN	TO126	A14	100V	100V	5V	4A	150	40WO	1M	-	750min	1500mA	-
BD901	NPN	TO220	A15	100V	100V	5V	8A	150	70WO	1M	-	750min	3A	BDX53C
BD911	NPN	TO220	A15	100V	100V	5V	15A	150	90WO	3M	-	15/150	5A	-
BD912	PNP	TO220	A15	100V	100V	5V	15A	150	90WO	3M	-	15/150	5A	-
BD943	NPN	TO220	A15	22V	22V	5V	5A	150	40WR	3M	-	85/475	500mA	-
BDT94	PNP	TO220	A15	80V	80V	-	10A	150	90WO	4M	-	20/200	4A	-
BDV64	PNP	TOP3	A15	60V	60V	5V	15A	150	125WO	-	400pF	1Kmin	5A	-
BDV64A	PNP	TOP3	A15	80V	80V	5V	15A	150	125WO	-	400pF	1Kmin	5A	-
BDV64B	PNP	TOP3	A15	100V	100V	5V	15A	150	125WO	-	400pF	1Kmin	5A	-
BDV65	NPN	TOP3	A15	60V	60V	5V	15A	150	125WO	-	300pF	1Kmin	5A	-
BDV65A	NPN	TOP3	A15	80V	80V	5V	15A	150	125WO	-	400pF	1Kmin	5A	-
BDV65B	NPN	TOP3	A15	100V	100V	5V	15A	150	125WO	-	400pF	1Kmin	5A	-
BDV65C	NPN	TOP3	A15	140V	120V	5V	12A	150	125WO	-	400pF	1Kmin	5A	-
BDW83	NPN	TOP3	A15	45V	45V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW83A	NPN	TOP3	A15	60V	60V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW83B	NPN	TOP3	A15	80V	80V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW83C	NPN	TOP3	A15	100V	100V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW84	PNP	TOP3	A15	45V	45V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW84A	PNP	TOP3	A15	60V	60V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW84B	PNP	TOP3	A15	80V	80V	5V	15A	150	150WO	1M	-	750min	6A	-
BDW93	NPN	TO220	A15	45V	45V	5V	15A	150	80WO	20M	-	750min	5A	-
BDW93A	NPN	TO220	A15	60V	60V	5V	15A	150	80WO	20M	-	750min	5A	-
BDW93B	NPN	TO220	A15	80V	80V	5V	15A	150	80WO	20M	-	750min	5A	-
BDW93C	NPN	TO220	A15	100V	100V	5V	15A	150	80WO	20M	-	750min	5A	-
BDW94	PNP	TO220	A15	45V	45V	5V	15A	150	80WO	20M	-	750min	5A	-
BDW94A	PNP	TO220	A15	60V	60V	5V	15A	150	80WO	20M	-	750min	5A	-

Dalsza część katalogu i rysunki obudów zamieszczone będą w następnym numerze EdW.

# Katalog tranzystorów

BDW94B	PNP	TO220	A15	80V	80V	5V	15A	150	80WO	20M	-	750min	5A	-		
BDW94C	PNP	TO220	A15	100V	100V	5V	15A	150	80WO	20M	-	750min	5A	-		
BDX10	NPN	TO3	A03	100V	60V	7V	15A	200	117WO	-	-	20/70	4A		BDY55	2N3055
BDX16	PNP	TO66	A17	160V	140V	7V	3A	200	25WO	2M	-	20/80	500mA		BDX16	2N3741
BDX65	NPN	TO3	A03	80V	60V	-	12A	200	117WO	1M	-	1Kmin	5A	-		
BDX66	PNP	TO3	A03	60V	60V	-	20A	200	150WO	3M	-	1Kmin	10A	-		
BDX67	NPN	TO3	A03	80V	60V	-	20A	200	150WO	3M	-	1Kmin	10A	-		
BDX87	NPN	TO3	A03	45V	45V	5V	12A	200	117WO	-	-	750min	6A		BDX65B	2N6578
BDX88	PNP	TO3	A03	45V	45V	5V	12A	200	117WO	-	-	750min	6A		BDX66C	2N6052
BF180	NPN	TO72	A04	30V	20V	3V	20mA	175	150mWP	335M	-	13min	2mA	-		
BF181	NPN	TO72	A04	30V	20V	3V	20mA	175	150mWP	300M	-	13min	2mA		BF180	
BF182	NPN	TO72	A04	25V	20V	-	15mA	175	150mWP	325M	-	10min	2mA	-		
BF183	NPN	TO72	A04	25V	20V	3V	15mA	175	150mWP	400M	-	10min	3mA	-		
BF184	NPN	TO72	A18	30V	20V	5V	30mA	175	145mWP	150M	-	75/750	1mA	-		
BF194	NPN	X09	A06	30V	20V	5V	30mA	125	250mWP	130M	-	67/220	1mA		BF184	
BF195	NPN	X09	A06	30V	20V	5V	30mA	125	250mWP	100M	-	36/125	1mA		BF185	
BF196	NPN	X09	A06	40V	30V	4V	25mA	125	250mWP	200M	-	27min	4mA		BF167	
BF197	NPN	X09	A06	40V	20V	4V	25mA	125	250mWP	275M	-	38min	7mA		BF173	
BF199	NPN	X10	A10	40V	20V	4V	25mA	125	250mWP	275M	-	38min	7mA		BF173	
BF200	NPN	TO72	A04	30V	20V	3V	20mA	175	150mWP	325M	-	15min	2mA	-		
BF214	NPN	TO72	A18	30V	30V	4V	30mA	175	160mWP	150M	0,7pF	75min	1mA		BF184	
BF240	NPN	X10	A10	40V	40V	4V	25mA	150	300mWP	215M	-	67/220	1mA		BF167	
BF241	NPN	X10	A10	40V	40V	4V	25mA	150	300mWP	200M	-	36/125	1mA		BF167	
BF258	NPN	TO39	A02	250V	250V	5V	100mA	175	800mWP	55M	7pF	25min	30mA	-		
BF259	NPN	TO39	A02	300V	300V	5V	100mA	175	500mWP	90M	7pF	25min	30mA	-		
BF314	NPN	X10	A11	30V	30V	4V	25mA	150	300mWP	225M	-	29min	4mA		BF200	
BF324	PNP	X10	A11	30V	30V	4V	25mA	150	250mWP	350M	0,1pF	35/160	4mA		BF500	
BF370	NPN	TO92	A23	40V	15V	4V	100mA	150	500mWP	500M	2,2pF	40min	10mA	-		
BF421	PNP	TO92	A22	300V	300V	5V	25mA	150	830mWP	60M	-	50min	25mA	-		
BF422	NPN	TO92	A22	250V	250V	5V	200mA	150	830mWP	60M	-	50min	25mA		BF299	2N4927
BF423	PNP	TO92	A22	250V	250V	5V	200mA	150	830mWP	60M	-	50min	25mA		BFT19B	2N5416
BF440	PNP	X10	A10	40V	40V	4V	25mA	150	300mWP	125M	-	60/220	1mA	-		
BF441	PNP	X10	A10	40V	40V	4V	25mA	150	300mWP	125M	-	30/125	1mA	-		
BF450	PNP	X10	A10	40V	40V	4V	25mA	125	125mWP	325M	-	60min	1mA		BF324	
BF457	NPN	TO126	A14	160V	160V	5V	100mA	150	6WO	40M	-	26min	30mA		BF459	
BF458	NPN	TO126	A14	250V	250V	5V	100mA	150	6WO	40M	-	26min	30mA		BF459	
BF459	NPN	TO126	A14	300V	300V	5V	100mA	150	6WO	40M	-	26min	30mA		BF459	
BF472	PNP	TO126	A14	300V	-	5V	100mA	150	2WO	60M	1,8pF	50min	25mA	-		
BF487	NPN	TO92	A12	400V	350V	5V	50mA	150	830mWP	90Mtyp	-	50min	25mA	-		
BF493	PNP	TO92	A12	300V	300V	8V	500mA	150	625mWP	50M	-	25min	10mA		BFT44	2N5416
BF494	NPN	TO92	A19	30V	20V	5V	30mA	150	300mWP	150M	-	10min	3mA	-		
BF506	PNP	TO92	A23	40V	35V	4V	30mA	150	250mWP	250M	1,2pF	20min	3mA		BF414	
BF509	PNP	TO92	A23	40V	35V	4V	30mA	150	250mWP	400M	1,2pF	35min	3mA		BF414	
BF621	PNP	X90	A31	300V	-	5V	50mA	150	1WP	60M	-	50min	25mA	-		
BF679	PNP	X37	A25	40V	35V	3V	30mA	150	170mWP	700M	1pF	25min	3mA	-		
BF869	NPN	TO202	A14	250V	250V	5V	30mA	150	1600mWP	60M	-	50min	25mA	-		
BF871	NPN	TO202	A14	300V	300V	5V	30mA	150	1600mWP	60M	-	50min	25mA	-		
BFR90	NPN	X32	A21	20V	15V	2V	25mA	150	180mWP	3G	-	25min	14mA	-		
BFR91	NPN	X32	A21	15V	12V	2V	35mA	150	180mWP	3G	-	25min	30mA	-		
BFR96S	NPN	X32	A21	20V	15V	-	100mA	175	700mWP	5Gtyp	-	25min	70mA	-		
BFY99	NPN	TO5	A02	65V	40V	4V	1A	200	4400mWO	250M	-	50/125	5mA		BSW54	2N2219A
BSX45	NPN	TO39	A02	40V	40V	7V	1A	200	800mWO	50M	25pF	40min	100mA		BFX85	2N2297
BU208A	NPN	TO3	A03	1500V	700V	-	5A	115	12WR	4M	-	2,5min	4500mA		BU209A	
BU2508AF	NPN	SOT199	A29	1500V	700V	-	8A	150	45WO	-	-	90pF	4min		4,5A	
BU2508DF	NPN	SOT199	A29	1500V	700V	-	8A	150	45WO	-	-	90pF	7min		1A	-
BU2520DF	NPN	SOT199	A29	1500V	800V	-	10A	150	45WO	-	-	85pF	5min		6A	-
BU323A	NPN	TO3	A03	525V	475V	6V	10A	150	125WO	4M	-	50min	6A	-		
BU326A	NPN	TO3	A03	900V	400V	7V	6A	125	60WO	4M	-	30min	600mA		BUX81	2N6545
BU406	NPN	TO220	A15	400V	200V	6V	10A	150	60WO	5M	-	10min	5A		BU406D	
BU407	NPN	TO220	A15	330V	200V	6V	10A	150	60WO	5M	-	10min	5A		BU406D	
BU506D	NPN	TO220	A15	1500V	700V	-	5A	150	100WO	-	-	6min	100mA	-		
BU508A	NPN	SOT93	A15	1500V	700V	-	8A	150	125WO	7Mtyp	125pF	6min	100mA	-		
BU508AF	NPN	SOT199A29	1500V	700V	-	8A	150	34WO	-	-	-	6min	100mA	-		
BU508D	NPN	SOT93	A15	1500V	700V	-	8A	150	125WO	7Mtyp	125pF	6min	100mA	-		
BU806	NPN	TO220	A15	400V	200V	6V	8A	150	60WO	-	-	100min	5A	-		
BU807	NPN	TO220	A15	330V	150V	6V	8A	150	60WO	-	-	100min	5A	-		
BU903	NPN	TOP3	A15	1300V	550V	-	6A	150	125WO	10Mtyp	-	5,5min	4A	-		
BU931ZP	NPN	TOP3	A15	350V	350V	-	15A	-	150WO	-	-	100min	7A	-		
BUH515D	NPN	ISO218	A15	1500V	700V	5V	8A	150	60WO	-	-	5min	5A	-		
BUS48	NPN	TO3	A03	850V	450V	6V	15A	200	175WO	-	-	6min	10A	-		
BUS48A	NPN	TO3	A03	1000V	450V	6V	15A	200	175WO	-	-	6min	10A	-		
BUT11	NPN	TO220	A15	800V	400V	-	5A	150	100WO	-	-	5min	3A	-		
BUT11AF	NPN	SOT186A29	1000V	450V	-	5A	150	20WO	-	-	-	30typ	300mA	-		
BUT11AX	NPN	SOT186A29	1000V	450V	-	5A	150	20WO	-	-	-	10min	500mA	-		

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BUT12A	NPN	TO220	A15	1000V	450V	-	8A	150	125WO	-	-	10min	1A	-	
BUT12AF	NPN	SOT186	A29	1000V	450V	-	8A	150	23WO	-	-	10min	1A	-	
BUT18AF	NPN	ISO220	A29	1000V	450V	-	6A	-	33WO	-	-	20typ	2A	-	
BUT56	NPN	TOP3	A15	800V	400V	-	8A	150	100WO	-	-	15min	1A	-	
BUT56A	NPN	TOP3	A15	1000V	450V	-	8A	150	100WO	-	-	15min	1A	-	
BUV48AFI	NPN	ISO218	A29	1000V	450V	-	15A	-	50WO	-	-	-	-	-	
BUV48C	NPN	TOP3	A15	1200V	700V	-	15A	-	120WO	-	-	-	-	-	
BUX37	NPN	TO3	A03	-	400V	15V	15A	150	35WO	-	-	20min	15A	-	
BUX48	NPN	TO3	A03	-	400V	7V	12A	175	125WO	-	-	5min	2A	-	BUX81 2N6543
BUY55	NPN	X06	A26	150V	125V	6V	10A	200	60WO	10M	-	8min	7A	-	
KT907A	NPN	X73	A30	60V	-	4V	1A	120	13WO	350M	20pF	-	-	-	
MJ15003	NPN	TO3	A03	140V	140V	5V	20A	200	200WO	2M	1nF	25min	5A	-	BDX50 2N3773
MJ15004	PNP	TO3	A03	140V	140V	5V	20A	200	200WO	2M	1nF	25min	5A	-	2N6031
MJ900	PNP	TO3	A03	60V	60V	5V	10A	200	90WO	-	-	750min	4A	-	
MJE13007	NPN	TO220	A15	700V	400V	9V	8A	150	80WO	4M	110pF	8/60	2A	-	BU406D
MJE340	NPN	TO126	A14	300V	300V	3V	500mA	150	20WO	10M	-	30/240	50mA	-	BD232
MJE350	PNP	TO126	A14	-	300V	3V	500mA	150	20WO	4M	-	30min	50mA	-	
MPSA92	PNP	TO92	A07	300V	300V	5V	500mA	150	625mWP	50M	6pF	25min	30mA	-	BF493
S2000A	NPN	TO247	A15	-	1500V	5V	8A	150	125WO	3Mtyp	125pF	2,25min	4500mA	-	
S2000AF	NPN	ISO218	A15	-	1500V	5V	8A	150	50WO	3Mtyp	125pF	2,25min	4500mA	-	
S2055AF	NPN	ISO218	A15	-	1500V	5V	8A	150	50WO	3Mtyp	125pF	2,25min	4500mA	-	
TIP127	PNP	TO220	A15	100V	100V	5V	5A	150	60WO	-	-	1Kmin	3A	-	
TIP142	NPN	TOP3	A15	100V	100V	5V	10A	150	125WO	-	-	500min	10A	-	
TIP147	PNP	TOP3	A15	100V	100V	5V	10A	150	125WO	-	-	500min	10A	-	
TIP2955	PNP	TOP3	A15	100V	60V	7V	15A	150	90WO	3M	-	20min	4A	-	BD214-80
TIP3055	NPN	TOP3	A15	100V	70V	7V	15A	150	90WO	3M	-	20/70	4A	-	BD213-80
TIP49	NPN	TO220	A15	-	350V	-	1A	150	40WO	-	-	30/150	150mA	-	
TIP50	NPN	TO220	A15	-	400V	-	1A	150	40WO	-	-	30/150	150mA	-	