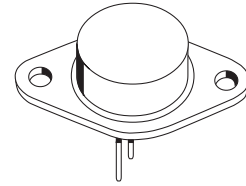


# Power Transistors

TO-3 Case



TYPE NO.		I <sub>C</sub> (A) MAX	P <sub>D</sub> (W)	BV <sub>CBO</sub> (V) MIN	BV <sub>CEO</sub> (V) MIN	h <sub>FE</sub>		@ I <sub>C</sub> (A)	V <sub>CE(SAT)</sub> @ I <sub>C</sub>		f <sub>T</sub> (MHz) MIN
NPN	PNP					MIN	MAX		(V) MAX	(A)	
2N3055	MJ2955	15	115	100	60	5.0	--	10	3.0	10	2.5
2N3442		10	117	160	140	20	70	3.0	5.0	10	--
2N3713	2N3789	10	150	80	60	15	--	3.0	1.0	5.0	4.0
2N3714	2N3790	10	150	100	80	15	--	3.0	1.0	5.0	4.0
2N3715	2N3791	10	150	80	60	30	--	3.0	1.0	5.0	4.0
2N3716	2N3792	10	150	100	80	30	--	3.0	1.0	5.0	4.0
2N3771		30	150	50	40	15	60	15	2.0	15	--
2N3772		20	150	100	60	15	60	10	1.4	10	--
2N3773	2N6609	16	150	160	140	15	60	8.0	4.0	16	--
2N4913	2N4904	5.0	87.5	40	40	7.0	--	5.0	1.5	5.0	4.0
2N4914	2N4905	5.0	87.5	60	60	7.0	--	5.0	1.5	5.0	4.0
2N4915	2N4906	5.0	87.5	80	80	7.0	--	5.0	1.5	5.0	4.0
2N5067	2N4901	5.0	87.5	40	40	7.0	--	5.0	1.5	5.0	4.0
2N5068	2N4902	5.0	87.5	60	60	7.0	--	5.0	1.5	5.0	4.0
2N5069	2N4903	5.0	87.5	80	80	7.0	--	5.0	1.5	5.0	4.0
2N5301	2N4398	30	200	40	40	15	60	15	4.0	30	4.0
2N5302	2N4399	30	200	60	60	15	60	15	4.0	30	4.0
2N5303	2N5745	20	200	80	80	15	60	10	2.0	20	2.0
2N5629	2N6029	16	200	100	100	25	100	8.0	2.0	16	1.0
2N5632	2N6229	10	150	100	100	25	100	5.0	2.0	10	1.0
2N5877	2N5875	10	150	60	60	4.0	--	10	3.0	10	4.0
2N5878	2N5876	10	150	80	80	4.0	--	10	3.0	10	4.0
2N5881	2N5879	15	160	60	60	4.0	--	15	4.0	15	4.0
2N5882	2N5880	15	160	80	80	4.0	--	15	4.0	15	4.0
2N5885	2N5883	25	200	60	60	20	100	10	4.0	25	4.0
2N5886	2N5884	25	200	80	80	20	100	10	4.0	25	4.0
2N6055	2N6053	8.0	100	60	60	750	18,000	4.0	3.0	8.0	4.0
2N6056	2N6054	8.0	100	80	80	750	18,000	4.0	3.0	8.0	4.0
2N6057	2N6050	12	150	60	60	750	18,000	6.0	3.0	12	4.0
2N6058	2N6051	12	150	80	80	750	18,000	6.0	3.0	12	4.0
2N6059	2N6052	12	150	100	100	750	18,000	6.0	3.0	12	4.0
	2N6246	15	125	70	60	20	100	7.0	2.5	15	4.0
	2N6247	15	125	90	80	20	100	6.0	3.5	15	4.0

Datasheet Directory

Shaded areas indicate Darlingtons.

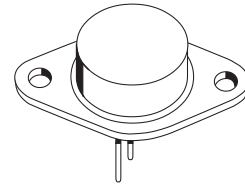
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# Power Transistors

## TO-3 Case (Continued)



TYPE NO.		$I_C$	$P_D$	$BV_{CBO}$	$BV_{CEO}$	$h_{FE}$		$@ I_C$	$V_{CE(SAT)}$		$f_T$
NPN	PNP	(A) MAX	(W)	(V) MIN	(V) MIN	MIN	MAX	(A)	(V) MAX	(A)	(MHz) MIN
	2N6248	10	125	110	100	20	100	5.0	3.5	10	4.0
2N6249		10	175	300	200	10	50	10	1.5	10	2.5
2N6250		10	175	375	275	8.0	50	10	1.5	10	2.5
2N6251		10	175	450	350	6.0	50	10	1.5	10	2.5
2N6253		15	115	55	45	20	70	3.0	4.0	15	4.0
2N6254		15	150	100	80	20	70	5.0	4.0	15	--
2N6282	2N6285	20	160	60	60	750	18,000	10	3.0	20	4.0
2N6283	2N6286	20	160	80	80	750	18,000	10	3.0	20	4.0
2N6284	2N6287	20	160	100	100	750	18,000	10	3.0	20	4.0
2N6306		8.0	125	500	250	15	75	8.0	5.0	8.0	5.0
2N6307		8.0	125	600	300	15	75	8.0	5.0	8.0	5.0
2N6308		8.0	125	700	350	12	60	8.0	5.0	8.0	5.0
2N6371		15	117	50	40	15	60	8.0	4.0	16	4.0
2N6383	2N6648	10	100	40	40	1,000	20,000	5.0	3.0	10	6.0
2N6384	2N6649	10	100	60	60	1,000	20,000	5.0	3.0	10	6.0
		10	100	80	80	1,000	20,000	5.0	3.0	10	6.0
	2N6469	15	125	50	40	20	150	5.0	3.5	15	4.0
2N6470		15	125	50	40	20	150	5.0	3.5	15	4.0
2N6471		15	125	70	60	20	150	5.0	3.5	15	4.0
2N6472		15	125	90	80	20	150	5.0	3.5	15	4.0
2N6542		5.0	100	650	300	7.0	35	3.0	1.0	3.0	6.0
2N6543		5.0	100	850	400	7.0	35	3.0	1.0	3.0	6.0
2N6544		8.0	125	650	300	7.0	35	5.0	1.5	8.0	6.0
2N6545		8.0	125	850	400	7.0	35	5.0	1.5	5.0	6.0
2N6546		15	175	650	300	12	60	5.0	1.5	10	6.0
2N6547		15	175	850	400	12	60	5.0	1.5	10	6.0
2N6569	2N6594	12	100	45	40	15	200	4.0	1.5	4.0	2.5
2N6576		15	120	60	60	2,000	20,000	4.0	4.0	15	6.0
2N6577		15	120	90	90	2,000	20,000	4.0	4.0	15	6.0
2N6578		15	120	120	120	2,000	20,000	4.0	4.0	15	6.0
2N6671		8.0	150	350	300	10	40	--	2.0	8.0	15
2N6672		8.0	150	400	350	10	40	--	2.0	8.0	15
2N6673		8.0	150	450	400	10	40	--	2.0	8.0	15

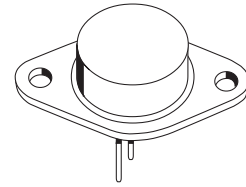
Shaded areas indicate Darlington.

(6-December 2004)

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# Power Transistors

## TO-3 Case (Continued)



TYPE NO.		I <sub>C</sub> (A) MAX	P <sub>D</sub> (W)	BV <sub>CBO</sub> (V) MIN	BV <sub>CEO</sub> (V) MIN	h <sub>FE</sub> *TYP		@ I <sub>C</sub> (A)	V <sub>CE(SAT)</sub> (V) MAX	@ I <sub>C</sub> (A)	f <sub>T</sub> *TYP (MHz) MIN
NPN	PNP					MIN	MAX				
2N6674		15	175	450	300	8.0	20	1.0	5.0	15	15
2N6675		15	175	650	400	8.0	20	1.0	5.0	15	15
BDW51	BDW52	15	125	45	45	20	150	5.0	3.0	10	3.0
BDW51A	BDW52A	15	125	60	60	20	150	5.0	3.0	10	3.0
BDW51B	BDW52B	15	125	80	80	20	150	5.0	3.0	10	3.0
BDW51C	BDW52C	15	125	100	100	20	150	5.0	3.0	10	3.0
BDX85	BDX86	10	100	45	45	750	18,000	4.0	4.0	8.0	10*
BDX85A	BDX86A	10	100	60	60	750	18,000	4.0	4.0	8.0	10*
BDX85B	BDX86B	10	100	80	80	750	18,000	4.0	4.0	8.0	10*
BDX85C	BDX86C	10	100	100	100	750	18,000	4.0	4.0	8.0	10*
BDX87	BDX88	12	120	40	40	750	18,000	6.0	3.0	12	20*
BDX87A	BDX88A	12	120	60	60	750	18,000	6.0	3.0	12	20*
BDX87B	BDX88B	12	120	80	80	750	18,000	6.0	3.0	12	20*
BDX87C	BDX88C	12	120	100	100	750	18,000	6.0	3.0	12	20*
BU208		8.0	150	1,500	700	--	--	--	5.0	4.5	7.0*
BU208A		8.0	150	1,500	700	--	--	--	1.0	4.5	7.0*
BUW34		10	125	500	400	--	--	--	1.5	5.0	--
BUW35		10	125	800	400	--	--	--	1.5	5.0	--
BUW36		10	125	900	450	--	--	--	1.5	5.0	--
BUW44		15	175	500	400	--	--	--	3.0	10	--
BUW45		15	175	800	400	--	--	--	1.5	10	--
BUW46		15	175	900	450	--	--	--	1.5	10	--
BUX11		20	150	250	200	20	60	6.0	1.5	12	8.0
BUX43		10	120	400	325	15	60	3.0	1.6	5.0	8.0
BUX44		8.0	120	450	400	15	45	2.0	2.0	4.0	8.0
BUX47		9.0	125	850	400	--	--	--	3.0	9.0	--
BUX48		15	175	850	400	--	--	--	5.0	15	--
BUX80		10	100	800	400	30*	--	1.2	3.0	8.0	--
BUY69A		10	100	1,000	400	15	--	2.5	3.3	8.0	10*
BUY69B		10	100	800	325	15	--	2.5	3.3	8.0	10*

Shaded areas indicate Darlington.

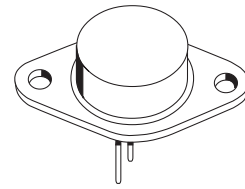
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(17-March 2011)

# Power Transistors

## TO-3 Case (Continued)



TYPE NO.		I <sub>C</sub> (A) MAX	P <sub>D</sub> (W)	BV <sub>CBO</sub> **BV <sub>CEV</sub> (V) MIN	BV <sub>CEO</sub> (V) MIN	h <sub>FE</sub>		@ I <sub>C</sub> (A)	V <sub>CE(SAT)</sub> @ I <sub>C</sub>		f <sub>T</sub> *TYP (MHz) MIN
NPN	PNP					MIN	MAX		(V) MAX	(A)	
BUY69C		10	100	500	200	15	--	2.5	3.3	8.0	10*
MJ802	MJ4502	30	200	100	90	25	100	7.5	0.8	7.5	2.0
MJ1000	MJ 900	8.0	90	60	60	1,000	--	3.0	4.0	8.0	6.0
MJ1001	MJ 901	8.0	90	80	80	1,000	--	3.0	4.0	8.0	6.0
MJ3000	MJ2500	10	150	60	60	1,000	--	5.0	4.0	10	--
MJ3001	MJ2501	10	150	80	80	1,000	--	5.0	4.0	10	--
MJ4033	MJ4030	16	150	60	60	1,000	--	10	4.0	16	--
MJ4034	MJ4031	16	150	80	80	1,000	--	10	4.0	16	--
MJ4035	MJ4032	16	150	100	100	1,000	--	10	4.0	16	--
MJ10012	MJ6503	8.0	125	450**	400	15	--	2.0	5.0	8.0	--
MJ10023†		10	175	600	400	100	2,000	6.0	2.5	10	--
MJ10023†		40	250	600**	400	50	600	10	5.0	40	--
MJ11012	MJ11011	30	200	60	60	1,000	--	20	4.0	30	4.0
MJ11014	MJ11013	30	200	90	90	1,000	--	20	4.0	30	4.0
MJ11016	MJ11015	30	200	120	120	1,000	--	20	4.0	30	4.0
PMD10K40	PMD11K40	12	150	40	40	800	20,000	6.0	2.0	12	4.0
PMD10K60	PMD11K60	12	150	60	60	800	20,000	6.0	2.0	6.0	4.0
PMD10K80	PMD11K80	12	150	80	80	800	20,000	6.0	2.0	6.0	4.0
PMD10K100	PMD11K100	12	150	100	100	800	20,000	6.0	2.0	6.0	4.0
PMD12K40	PMD13K40	8.0	100	40	40	800	20,000	4.0	2.0	4.0	4.0
PMD12K60	PMD13K60	8.0	100	60	60	800	20,000	4.0	2.0	4.0	4.0
PMD12K80	PMD13K80	8.0	100	80	80	800	20,000	4.0	2.0	4.0	4.0
PMD12K100	PMD13K100	8.0	100	100	100	800	20,000	4.0	2.0	4.0	4.0
PMD1601K	PMD1701K	20	180	60	60	750	20,000	10	2.0	10	4.0
PMD1602K	PMD1702K	20	180	80	80	750	20,000	10	2.0	10	4.0
PMD1603K	PMD1703K	20	180	100	100	750	20,000	10	2.0	10	4.0
PMD16K60	PMD17K60	20	200	60	60	800	20,000	10	2.0	10	4.0
PMD16K80	PMD17K80	20	200	80	80	800	20,000	10	2.0	10	4.0
PMD16K100	PMD17K100	20	200	100	100	800	20,000	10	2.0	10	4.0
PMD18K60	PMD19K60	30	225	60	60	800	20,000	15	2.0	15	4.0
PMD18K80	PMD19K80	30	225	80	80	800	20,000	15	2.0	15	4.0
PMD18K100	PMD19K100	30	225	100	100	800	20,000	15	2.0	15	4.0
SE9303	SE9403	10	100	60	60	1,000	--	7.5	2.5	7.5	1.0
SE9304	SE9404	10	100	80	80	1,000	--	7.5	2.5	7.5	1.0
SE9305	SE9405	10	100	100	100	1,000	--	7.5	2.5	7.5	1.0

Shaded areas indicate Darlington.  
 † Uses 60 mil leads.  
 See mechanical specifications on page 209

(6-December 2004)

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