

Bipolar Power Transistors

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General Purpose Amplifiers/Switches

	FAMILY	I _C (A) MAX	BV _{CEO} *BV _{CEV} (V) MIN	BV _{CEO} (V) MIN	hFE		@ I _C (A)	V _{CE(SAT)} (V) MAX	@ I _C (A)	f _T †TYP. (MHZ) MIN
			MIN	MAX	MIN	MAX	MIN	MAX		
S Devices are listed in order of descending I _C .										
NPN	3055	10	70	60	20	100	4.0	1.1	4.0	–
	44H11	8.0	80	80	40	–	4.0	1.0	8.0	60†
	853	6.0	200	100	100	300	2.0	0.17	2.0	190†
	41C	6.0	100	100	15	75	3.0	1.5	6.0	3.0
	3150	5.0	50	25	150	–	2.0	0.5	4.0	150†
	5338	5.0	100	100	30	120	2.0	1.2	5.0	30
	200	5.0	40	25	45	180	2.0	1.8	5.0	65
	31C	3.0	100	100	10	50	3.0	1.2	3.0	3.0
	3120	3.0	120	70	100	300	0.5	0.5	2.0	8.0
	A44HC	2.0	450	400	30	–	1.0	0.5	1.0	10
2680	1.5	250	200	40	–	0.5	0.5	1.0	50	
491E	1.0	80	60	200	600	0.5	0.4	1.0	150	
PNP	2955	10	70	60	20	100	4.0	1.1	4.0	2.0
	45H11	8.0	80	80	40	–	4.0	1.0	8.0	50†
	42C	6.0	100	100	15	75	3.0	1.5	6.0	3.0
	953	5.0	140	100	100	300	1.0	0.22	2.0	150†
	210	5.0	40	25	45	180	2.0	1.8	5.0	5.0
	955	4.0	180	140	100	300	1.0	0.36	3.0	200†
	32C	3.0	100	100	10	50	3.0	1.2	3.0	3.0
	7120	3.0	120	70	100	300	0.5	0.5	2.0	8.0
	591E	1.0	80	60	200	600	0.5	0.4	1.0	150

High Voltage

S Devices are listed in order of descending breakdown voltage.										
NPN	13003	1.5	700*	400	5.0	25	1.0	3.0	1.5	4.0
	50	1.0	500	400	30	150	0.3	1.0	1.0	10
	47	1.0	350	250	30	150	0.3	1.0	1.0	10
	340	0.5	300	300	30	240	0.05	–	–	–
PNP	350	0.5	300	300	30	240	0.05	–	–	–

Extremely High Voltage

NPN	UX87	0.5	900*	450	12	–	0.04	1.0	0.2	20†
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Darlington

NPN	112	2.0	100	100	1,000	12,000	2.0	2.0	2.0	25
	122	8.0	100	100	1,000	12,000	4.0	4.0	8.0	4.0
PNP	117	2.0	100	100	1,000	12,000	2.0	2.0	2.0	25
	127	8.0	100	100	1,000	12,000	4.0	4.0	8.0	4.0








Low V_{CE(SAT)}

S Devices are listed in order of descending V _{CE(SAT)}										
NPN	3150	5.0	50	25	150	–	2.0	0.6	4.0	150†
	3090L	3.0	45	15	200	–	1.0	0.3	3.0	100
	E 3090LE	3.0	60	50	300	–	1.0	0.25	3.0	100
PNP	7090L	3.0	50	40	200	–	1.0	0.75	2.0	100
	E 7090LE	3.0	60	50	250	–	1.0	0.3	2.0	100

E Indicates Enhanced Specification Device. Enhanced Spec in Red and Bold S Indicates Sorted Columns.



Package dimensions shown are maximum values in mm.

FAMILY	TLM833S  3.15 x 3.15 x 1.0	SOT-563  1.7 x 1.7 x 0.6	SOT-23  3.05 x 2.49 x 1.09	SOT-26  3.0 x 3.0 x 1.2	SOT-89  4.7 x 4.5 x 1.7	SOT-223  6.7 x 7.3 x 1.8	DPAK  10.73 x 6.81 x 2.75
3055						CZT3055	CJD3055
44H11							CJD44H11
853	CTLT853-M833S				CXT853	CZT853	
41C							CJD41C
3150						CZT3150	
5338						CZT5338	
200							CJD200
31C						CZT31C	CJD31C
3120						CZT3120	
A44HC						CZTA44HC	
2680						CZT2680	
491E		CMLT491E	CMPT491E		CXT491E		
2955						CZT2955	CJD2955
45H11							CJD45H11
42C							CJD42C
953	CTLT953-M833S				CXT953	CZT953	
210							CJD210
955						CZT955	
32C						CZT32C	CJD32C
7120						CZT7120	
591E		CMLT591E	CMPT591E		CXT591E		
13003							CJD13003
50							CJD50
47							CJD47
340							CJD340
350							CJD350
UX87						CZTUX87	
112							CJD112
122						CZT122	CJD122
117							CJD117
127						CZT127	CJD127
3150					CXT3150	CZT3150	
3090L				CMXT3090L	CXT3090L	CZT3090L	
3090LE						CZT3090LE	
7090L				CMXT7090L	CXT7090L	CZT7090L	
7090LE						CZT7090LE	