

# Small Signal Transistors

TO-18 Case (Continued)



TYPE NO.	DESCRIPTION	BV <sub>CBO</sub>	BV <sub>CEO</sub>	BV <sub>EBO</sub>	I <sub>CBO</sub> @	V <sub>CB</sub>	h <sub>FE</sub>		@ I <sub>C</sub>	@ V <sub>CE</sub>	V <sub>CE(SAT)</sub>	@ I <sub>C</sub>	C <sub>OB</sub>	f <sub>T</sub>	NF	t <sub>on</sub>	t <sub>off</sub>
		(V)	(V)	(V)	(μA)		(V)	MIN	MAX	(mA)	(V)	(V)		(mA)	(pF)	(MHz)	(dB)
		MIN	MIN	MIN	MAX					MAX	MAX	MAX	MAX	MIN	MAX	MAX	MAX
2N5183	NPN AMPL/SWITCH	18	18	7.0	0.5	12	75	400	10	10	0.5	300	20	125	--	--	--
2N6430	NPN HIGH VOLTAGE	200	200	6.0	0.1	160	50	200	30	10	0.5	20	4.0	50	--	--	--
2N6431	NPN HIGH VOLTAGE	300	300	6.0	0.1	200	50	200	30	10	0.5	20	4.0	50	--	--	--
2N6432	PNP HIGH VOLTAGE	200	200	5.0	0.25	160	30	150	30	10	0.5	20	6.0	50	--	--	--
2N6433	PNP HIGH VOLTAGE	300	300	5.0	0.25	200	30	150	30	10	0.5	20	6.0	50	--	--	--
BC110	NPN AMPL/SWITCH	80	80	8.0	0.1	80	30	--	2.0	5.0	0.6	50	5.0	50	--	--	--
BC187	PNP AMPL/SWITCH	30	25	5.0	0.1	30	140	--	2.0	5.0	--	--	--	--	--	--	--
BC393	PNP AMPL/SWITCH	180	180	6.0	0.05	100	50	100	10	10	0.3	10	7.0	5.0	--	100	400
BC394	NPN AMPL/SWITCH	180	180	6.0	0.05	100	50	100	10	10	0.3	10	7.0	5.0	--	100	400
BC477	PNP AMPL/SWITCH	90	80	6.0	0.01*	70	70	250	2.0	5.0	0.25	10	6.0	150	10	--	--
BCX22	NPN AMPL/SWITCH	125	125	5.0	0.1*	100	40	--	200	1.0	0.9	300	12	50	--	--	--
BCX23	PNP AMPL/SWITCH	125	125	5.0	0.1*	100	40	--	200	1.0	0.9	300	12	50	--	--	--
BCX24	NPN AMPL/SWITCH	100	100	7.0	0.03*	0.03*	20	--	10	1.0	0.9	300	12	30	--	--	--
BCX39	PNP AMPL/SWITCH	100	100	5.0	0.1*	100	40	--	200	1.0	0.9	300	12	50	--	--	--
BCX94	NPN AMPL/SWITCH	100	100	5.0	100*	100	63	--	100	1.0	0.9	300	8.0	50	--	--	--
BCY70	PNP AMPL/SWITCH	50	40	5.0	0.5	50	15	--	50	1.0	0.25	10	6.0	250	6.0	65	420
BCY71	PNP AMPL/SWITCH	45	45	5.0	0.5	45	100	600	10	1.0	0.25	10	6.0	250	2.0	--	--
BCY79	PNP AMPL/SWITCH	45	45	5.0	0.1*	45	80	1.0K	10	1.0	0.25	10	7.0	180	6.0	150	800
BFR16	NPN LOW NOISE	60	60	8.0	0.01*	50	150	490	1.0	5.0	5.0	10	6.0	70	4.0	--	--
BFW68	NPN AMPL/SWITCH	50	40	5.0	0.01	30	45	--	1.0	10	0.15	10	4.0	250	6.0	30	240
BFX65	PNP AMPL/SWITCH	45	45	6.0	0.01*	40	100	--	1.0	5.0	0.25	10	6.5	100	3.0	--	--
BFY18	NPN AMPL/SWITCH	40	25	3.0	0.01	20	25	--	10	9.0	1.5	10	5.5	200	--	--	--
BFY74	NPN AMPL/SWITCH	60	45	5.0	0.01	45	40	180	10	5.0	1.0	10	4.0	250	--	--	--
BFY76	NPN LOW NOISE	60	60	8.0	0.02*	50	150	300	1.0	5.0	0.35	1.0	6.0	70	4.0	--	--
BSV68	PNP AMPL/SWITCH	110	100	6.0	10	110	30	--	10	5.0	0.25	25	5.0	50	--	--	--
BSX19	NPN AMPL/SWITCH	40	15	--	0.4	20	20	60	10	1.0	0.25	10	4.0	400	--	12	15
BSX20	NPN AMPL/SWITCH	40	15	4.5	0.4	20	40	120	10	1.0	0.25	10	4.0	500	--	12	18
BSX21	NPN AMPL/SWITCH	120	80	5.0	0.2	90	20	--	4.0	1.0	0.70	4.0	4.5	60	--	--	--
BSX36	PNP AMPL/SWITCH	40	40	5.0	0.015	25	40	--	10	10	1.8	500	8.0	100	--	40	100
BSX49	NPN AMPL/SWITCH	60	40	5.0	0.07	50	25	--	100	1.0	1.0	500	6.0	250	--	50	95
BSX79	NPN AMPL/SWITCH	50	45	5.0	0.01	25	100	750	10	1.0	0.2	10	5.0	200	--	150	800
BSY18	NPN AMPL/SWITCH	20	12	5.0	1.0	20	40	120	10	0.35	0.28	10	5.0	280	--	16	24
BSY62	NPN AMPL/SWITCH	25	15	5.0	0.5	15	20	300	10	1.0	0.6	10	5.0	280	--	40	75
BSY79	NPN AMPL/SWITCH	120	--	5.0	0.05	90	30	--	1.0	1.0	0.5	2.0	4.0	50	--	--	--
BSY95A	NPN AMPL/SWITCH	20	15	5.0	0.05	16	50	200	10	0.35	0.35	10	6.0	200	--	--	--
MM4257	PNP FAST SWITCH	6.0	6.0	4.5	0.01*	6.0	30	120	10	0.3	0.15	10	3.0	500	--	25	25
MM4258	PNP FAST SWITCH	12	12	4.5	0.01*	6.0	30	120	10	0.3	0.15	10	3.0	700	--	25	30

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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