

Small Signal Transistors

TO-39 Case (Continued)



TYPE NO.	DESCRIPTION	V _{CBO} (V)	V _{CEO} (V) *V _{CER}	V _{EBO} (V)	I _{CBO} (μA) *I _{CEO} **I _{CES} ***I _{CEV} ****I _{CER}	@ V _{CB} (V)	h _{FE}		@ I _C (mA)	@ V _{CE} (V)	V _{CE(SAT)} @ I _C (V)	f _T (MHz) *TYP †TYP in GHz	C _{ob} (pF) *TYP	t _{on} (ns) *TYP	t _{off} (ns) *TYP	NF (dB) *TYP
		MIN	MIN	MIN			MIN	MAX			MAX	MIN	MAX	MAX	MAX	MAX
2N5784	NPN AMPL/SWITCH	80	65	5.0	10***	75	20	150	1,000	2.0	0.50	1,000	1.0	--	--	--
2N5785	NPN AMPL/SWITCH	65	50	5.0	10***	60	20	100	1,200	2.0	0.75	1,200	1.0	--	--	--
2N5786	NPN AMPL/SWITCH	45	40	3.5	10***	45	20	150	1,600	2.0	1.00	1,600	1.0		5.0	15
2N5859	NPN CORE DRIVER	80	40	6.0	0.25	50	30	120	500	1.0	0.70	1,000	250	7.0	35	60
2N5861	NPN CORE DRIVER	100	50	6.0	0.30	50	25	100	500	1.0	0.50	500	200	7.0	25	60
2N6190	NPN HIGH CURRENT	80	80	6.0	10	80	30	120	2,000	2.0	0.70	2,000	30	300	--	--
2N6191	PNP HIGH CURRENT	80	80	6.0	10	80	60	240	2,000	2.0	0.70	2,000	30	300	--	--
2N6192	PNP HIGH CURRENT	100	100	6.0	10	100	30	120	2,000	2.0	0.70	2,000	30	300	--	--
2N6193	PNP HIGH CURRENT	100	100	6.0	10	100	60	240	2,000	2.0	0.70	2,000	30	300	--	--
BC140	NPN AMPL/SWITCH	80	40	7.0	0.10**	60	40	250	100	1.0	1.00	1,000	50	25	250	850
BC141	NPN AMPL/SWITCH	100	60	7.0	0.10**	60	40	250	100	1.0	1.00	1,000	50	25	250	850
BC160	PNP AMPL/SWITCH	40	40	5.0	0.10**	40	40	250	100	1.0	1.00	1,000	50	30	500	650
BC161	PNP AMPL/SWITCH	60	60	5.0	0.10**	60	40	250	100	1.0	1.00	1,000	50	30	500	650
BC300	NPN AMPL/SWITCH	120	80	7.0	0.02	60	40	240	150	10	0.50	150	100*	12*	--	--
BC301	NPN AMPL/SWITCH	90	60	7.0	0.02	60	40	240	150	10	0.50	150	100*	12*	--	--
BC302	NPN AMPL/SWITCH	60	45	7.0	0.02	60	40	240	150	10	0.50	150	100*	12*	--	--
BC303	PNP AMPL/SWITCH	85	60	6.0	0.02	60	40	240	150	10	0.65	150	100*	15*	--	--
BC304	PNP AMPL/SWITCH	60	45	6.0	0.02	60	40	240	150	10	0.65	150	100*	15*	--	--
BC440	NPN AMPL/SWITCH	50	40	5.0	0.10	40	40	250	500	4.0	1.00	1,000	50	--	--	--
BC441	NPN AMPL/SWITCH	70	60	5.0	0.10	40	40	250	500	4.0	1.00	1,000	50	--	--	--
BC460	PNP AMPL/SWITCH	50	40	5.0	0.10	40	40	250	500	4.0	1.00	1,000	50	--	--	--
BC461	PNP AMPL/SWITCH	70	60	5.0	0.10	40	40	250	500	4.0	1.00	1,000	50	--	--	--
BCW78	NPN AMPL/SWITCH	45	45	5.0	0.02**	45	100	630	100	1.0	0.70	500	--	--	--	--
BCW80	PNP AMPL/SWITCH	45	45	5.0	0.02**	45	63	400	100	1.0	0.70	500	--	--	--	--
BD115	NPN HIGH VOLTAGE	250	180	5.0	550*	200	22	--	50	100	9.00	100	150*	--	--	--
BF178	NPN AMPL/SWITCH	185	115	5.0	0.01	185	20	--	30	20	--	--	120*	--	--	--
BF257	NPN HIGH VOLTAGE	160	160	5.0	50	100	25	--	30	10	1.00	30	90*	--	--	--
BF258	NPN HIGH VOLTAGE	250	250	5.0	50	200	25	--	30	10	1.00	30	90*	--	--	--
BF259	NPN HIGH VOLTAGE	300	300	5.0	50	250	25	--	30	10	1.00	30	90*	--	--	--
BF337	NPN HIGH VOLTAGE	250	200	5.0	100****	200	20	--	30	10	--	--	--	--	--	--
BFR36	NPN AMPL/SWITCH	40	30	3.0	0.15	20	60	--	70	5.0	--	--	1.0	--	--	4.0*
BFS89	NPN HIGH VOLTAGE	300	300	5.0	0.05	250	25	--	50	10	--	--	--	--	--	--
BFS95	PNP AMPL/SWITCH	40	35	6.0	0.05	30	15	--	1,000	10	0.20	150	--	--	--	--
BFT28C	PNP HIGH VOLTAGE	300	250	--	5.00	150	20	--	10	10	5.00	30	25	--	--	--
BFW16A	NPN AMPL/SWITCH	40	25	3.0	20	20	25	--	50	5.0	--	--	1.2†	--	--	6.0
BFW44	PNP AMPL/SWITCH	150	150	6.0	0.01	100	40	--	10	10	0.50	10	60	7.0	--	--
BFX34	NPN AMPL/SWITCH	120	60	6.0	10**	60	40	150	2,000	2.0	1.00	5,000	70	100	600	1,200
BFX84	NPN AMPL/SWITCH	100	60	6.0	0.50	100	30	--	150	10	1.00	500	50	12	--	--
BFX85	NPN AMPL/SWITCH	100	60	6.0	0.50	100	70	--	150	10	1.00	500	50	12	--	--

(26-September 2011)

Central
Semiconductor Corp.
www.centalsemi.com

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd 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

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).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms