

## SMALL-SIGNAL AMPLIFIERS (PRO-ELECTRON SERIES)

Type No.	POLARITY	P <sub>D</sub> T <sub>A</sub> = 25°C (mW)	V <sub>(BR)</sub> CBO Volts	V <sub>(BR)</sub> CEO Volts	V <sub>(BR)</sub> EBO Volts	DC CURRENT GAIN (h <sub>FE</sub> )				V <sub>CE(SAT)</sub>		f <sub>T</sub> Min. (MHz)	C <sub>cb</sub> Max. (pF)	N.F. Max. (dB)		
						Conditions		Limits		I <sub>c</sub> (mA)	V <sub>CE</sub> Volts				Min.	Max.
						I <sub>c</sub> (mA)	V <sub>CE</sub> Volts	I <sub>c</sub> (mA)	Max. Volts							
BC182A	NPN	300	60	50	6	2	5	120	220	100	0.60	150	5	10		
BC182B	NPN	300	60	50	6	2	5	180	460	100	0.60	150	5	10		
BC212A	PNP	300	60	50	5	2	5	120	220	100	0.60	200	6	10		
BC212B	PNP	300	60	50	5	2	5	180	460	100	0.60	200	6	10		
BC237A	NPN	300	50	45	6	2	5	120	220	10	0.20	150	4.5	10		
BC237B	NPN	300	50	45	6	2	5	180	460	10	0.20	150	4.5	10		
BC238A	NPN	300	30	20	5	2	5	120	220	10	0.20	150	4.5	10		
BC238B	NPN	300	30	20	5	2	5	180	460	10	0.20	150	4.5	10		
BC238C	NPN	300	30	20	5	2	5	380	800	10	0.20	150	4.5	10		
BC239B	NPN	300	30	20	5	2	5	180	460	10	0.20	150	4.5	4		
BC239C	NPN	300	30	20	5	2	5	380	800	10	0.20	150	4.5	4		
BC307A	PNP	300	45	45	5	2	5	120	220	10	0.20	150	6	10		
BC307B	PNP	300	45	45	5	2	5	180	460	10	0.20	150	6	10		
BC308A	PNP	300	25	25	5	2	5	120	220	10	0.20	150	6	10		
BC308B	PNP	300	25	25	5	2	5	180	460	10	0.20	150	6	10		
BC308C	PNP	300	25	25	5	2	5	380	800	10	0.20	150	6	10		
BC309B	PNP	300	20	20	5	2	5	180	460	10	0.20	150	6	4		
BC309C	PNP	300	20	20	5	2	5	380	800	10	0.20	150	6	4		
BC413B	NPN	300	45	30	5	2	5	180	460	10	0.6	250	2.5	2.5		
BC413C	NPN	300	45	30	5	2	5	380	800	10	0.6	250	2.5	2.5		
BC414B	NPN	300	50	45	5	2	5	180	460	10	0.6	250	2.5	2.5		
BC414C	NPN	300	50	45	5	2	5	380	800	10	0.6	250	2.5	2.5		
BC415A	PNP	300	45	35	5	2	5	120	220	10	0.6	200	4.5	2.0		
BC415B	PNP	300	45	35	5	2	5	180	460	10	0.6	200	4.5	2.0		
BC415C	PNP	300	45	35	5	2	5	380	800	10	0.6	200	4.5	2.0		
BC416A	PNP	300	50	45	5	2	5	120	220	10	0.6	200	4.5	2.0		
BC416B	PNP	300	50	45	5	2	5	180	460	10	0.6	200	4.5	2.0		
BC416C	PNP	300	50	45	5	2	5	380	800	10	0.6	200	4.5	2.0		
BC327-16	PNP	300	45	45	5	100	1	100	250	500	0.7	100	12	—		
BC327-25	PNP	300	45	45	5	100	1	160	400	500	0.7	100	12	—		
BC327-40	PNP	300	45	45	5	100	1	250	630	500	0.7	100	12	—		
BC328-16	PNP	300	25	25	5	100	1	100	250	500	0.7	100	12	—		
BC328-25	PNP	625	25	25	5	100	1	160	400	500	0.7	100	12	—		
BC328-40	PNP	625	25	25	5	100	1	250	630	500	0.7	100	12	—		
BC337-16	NPN	625	45	45	5	100	1	100	250	500	0.7	100	12	—		
BC337-25	NPN	625	45	45	5	100	1	160	400	500	0.7	100	12	—		
BC337-40	NPN	625	45	45	5	100	1	250	630	500	0.7	100	12	—		
BC338-16	NPN	625	25	25	5	100	1	100	250	500	0.7	100	12	—		
BC338-25	NPN	625	25	25	5	100	1	160	400	500	0.7	100	12	—		
BC338-40	NPN	625	25	25	5	100	1	250	630	500	0.7	100	12	—		
BC167A	NPN	300	50	45	6	2	5	125	260	10	0.20	150	4.5	10		
BC167B	NPN	300	50	45	6	2	5	240	500	10	0.20	150	4.5	10		
BC168A	NPN	300	30	20	5	2	5	125	260	10	0.20	150	4.5	10		
BC168B	NPN	300	30	20	5	2	5	240	500	10	0.20	150	4.5	10		
BC168C	NPN	300	30	20	5	2	5	450	900	10	0.20	150	4.5	10		
BC169B	NPN	300	30	20	5	2	5	240	500	10	0.20	150	4.5	4		
BC169C	NPN	300	30	20	5	2	5	450	900	10	0.20	150	4.5	5		
BC257A	PNP	300	45	45	5	2	5	125	260	10	0.20	150	6	10		
BC257B	PNP	300	45	45	5	2	5	240	500	10	0.20	150	6	10		
BC258A	PNP	300	25	25	5	2	5	125	260	10	0.20	150	6	10		
BC258B	PNP	300	25	25	5	2	5	240	500	10	0.20	150	6	10		
BC258C	PNP	300	25	25	5	2	5	450	900	10	0.20	150	5	10		
BC259B	PNP	300	20	20	5	2	5	240	500	10	0.20	150	6	4		
BC259C	PNP	300	20	20	5	2	5	450	900	10	0.20	150	6	4		



TO-92  
Formed  
to  
TO-18  
(CBE  
Pinning)



TO-92  
Package  
(ECB  
Pinning)