

Transistor General Purpose Comparison Table

Technical Data

Electrical Characteristics - BC Series

Type	Package	NPN/PNP	Ic (mA)	Pd (mW)	Vce (max)	Vcb (max)	hfe	@ Ic	FT (MHz)	Complement	Application
BC107	TO-18	NPN	100	300	45	50	110-450	2	300		G.P.
BC108	TO-18	NPN	100	300	20	30	110-800	2	300		G.P.
BC109	TO-18	NPN	100	300	20	30	200-800	2	300		G.P.
BC109C	TO-18	NPN	100	300	20	30	420-800	2	300		G.P.
BC142	TO-39	NPN	1.0A	800	60	80	20-60	200	80	BC143	Audio Driver
BC143	TO-39	PNP	1.0A	800	60	60	20-40	300	-	BC142	Audio Driver
BC177	TO-18	PNP	100	300	45	50	75-260	2	150		G.P.
BC178	TO-18	PNP	100	300	25	30	75-500	2	150		G.P.
BC179	TO-18	PNP	100	300	20	25	125-500	2	150		G.P.
BC182L	TO-92	NPN	100	350	50	60	120-	2	150	BC212L	G.P.

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							500				
BC183L	TO-92	NPN	100	350	30	45	120-800	2	150	BC213L	G.P.
BC184L	TO-92	NPN	100	350	30	45	250-800	2	150	BC214L	G.P.
BC212L	TO-92	PNP	100	350	50	60	60	2	280	BC182L	G.P.
BC213L	TO-92	PNP	100	350	30	45	80-400	2	350	BC183L	G.P.
BC214L	TO-92	PNP	100	350	30	45	140-600	2	320	BC184L	G.P.
BC307	TO-92	PNP	100	350	45	50	180-460	2	280		Amplifier
BC327	TO-92	PNP	500	625	45	50	100-600	100	100	BC337	Audio Driver
BC328	TO-92	PNP	500	625	25	30	100-600	100	100		Audio Driver
BC337	TO-92	NPN	500	625	45	50	100-600	100	100		Audio Driver
BC338	TO-18	NPN	500	625	25	30	100-600	100	100		Audio Driver
BC546	TO-92	NPN	100	500	65	80	110-450	2	300		G.P.
BC547	TO-92	NPN	100	500	45	50	110-800	2	300		G.P.
BC548	TO-92	NPN	100	500	30	30	110-800	2	300		G.P.

BC549	TO-92	NPN	100	500	30	30	200-800	2	300		Low Noise
BC556	TO-92	NPN	100	500	65	80	75-475	2	200		G.P.
BC557	TO-92	PNP	100	500	45	50	75-800	2	200		G.P.
BC558	TO-92	PNP	100	500	30	30	75-800	2	200		G.P.
BC559	TO-92	PNP	100	500	30	30	125-800	2	200		G.P.
BC639	TO-92	NPN	1.0A	1.0W	80	100	40-250	150	130		Audio Driver
BC640	TO-92	PNP	1.0A	1.0W	80	100	40-250	150	50		Audio Driver

Electrical Characteristics - C Series

Type	Package	NPN/PNP	Ic (mA)	Pd (mW)	Vce (max)	Vcb (max)	hfe	@ Ic	FT (MHz)	Complement	Application
C1815	TO-92	NPN	400	600	70	70	120	-	200		G.P.
C2233	TO-220	NPN	4.0A	75W	300	300	25	-	4		High Current
C2330	T16	NPN	100	900	300	300	100	-	50		HV Video
C2482	T16	NPN	100	900	300	300	100	-	50		HV Video
C9012	TO-92	PNP	500	625	20	40	120	-	200		G.P.
C9013	TO-92	NPN	500	625	20	40	120	-	200		G.P.
C9014	TO-92	NPN	600	500	40	75	200	-	300		G.P.
C9015	TO-92	PNP	600	500	40	75	200	-	300		G.P.

Electrical Characteristics - 2N Series

Type	Package	NPN/PNP	Ic (mA)	Pd (mW)	Vce (max)	Vcb (max)	hfe	@ Ic	FT (MHz)	Complement	Application
PN2222	TO-39	NPN	800	500	40	75	100-300	150	300		Switching
2N2222	TO-18	NPN	800	500	40	75	100-300	150	300		Switching
2N2905	TO-39	PNP	600	600	40	60	100-300	150	200		Switching
2N3703	TO-92	PNP	200	300	30	50	30-150	50	100	2N3705	General Purpose
2N3704	TO-92	NPN	800	360	30	50	100-300	50	100	2N3702	General Purpose
2N3904	TO-92	NPN	200	350	40	60	100-300	10	300	2N3906	Switching
2N3906	TO-92	PNP	200	350	40	40	100-300	10	250	2N3904	Switching
2N4401	TO-92	NPN	600	350	40	60	100-300	150	250	2N4403	G.P.
2N4403	TO-92	PNP	600	350	40	40	100-300	150	200	2N4401	G.P.
2N5401	TO-92	PNP	600	625	150	160	60-240	10	100		Amplifier

* The information appearing here is for comparison purposes only and to use the devices within their specifications, please consult the full data sheet.