

**Phenitec Original PNP Bipolar Transistor Characteristics Table**

\*= typical, \$=VCER, #=VCES

Chip	VCBO (V)	VCEO (V)	VEBO (V)	IC (A)	hFE (-)	VCE(sat)			fT			Cob		Complementary Product	Comment		
						VCE(V)	IC(A)	IB(A)	(MHz)	VCE(V)	IE(A)	(pF)	VCB(V)				
A5920	15	12	6	0.5	270-680	2	10m	0.25	0.2	10m	260*	2	10m	6.5*	10	-	Low VCE(sat)
A5909	15	15	5	3	500-1500	2	10m	0.5	3	50m	100	5	50m	50*	10	C5909	Very Low VCE(sat)
A5885	25	20	4	0.65	150-800	4	0.1	0.5	0.5	25m	180*	6	10m	-	-	-	Low VCE(sat)
A5881	25	20	4	0.7	150-800	4	0.1	0.5	0.5	25m	180*	6	10m	12*	10	-	Low VCE(sat)
B5897	32	20	5	1	85-375	1	0.5	0.5	1	0.1	40	5	50m	18*	10	-	Low VCE(sat)
B5890	20	20	5	2	220-	2	0.5	0.21	2	0.2	100	5	0.1	50	10	D5890	Low VCE(sat)
A5889	20	20	7	3	200-500	2	0.5	0.19	1.6	53m	160*	2	0.5	40*	10	C5915	Very Low VCE(sat)
B5947	30	20	6	5	82-390	2	0.5	1	4	0.1	120*	6	50m	60*	20	-	Low VCE(sat)
B5858	40	25	6	1.5	85-300	1	0.1	0.5	0.8	80m	100	10	50m	6.5*	10	D5858	Low VCE(sat)
B5974	40	25	6	1.5	85-300	1	0.1	0.5	0.8	80m	100	10	50m	10*	10	D5974	Low VCE(sat)
A5908	25	25	5	3	300-800	2	10m	0.5	3	0.1	100	5	50m	50*	10	C5908	Very Low VCE(sat)
B5943	30	30	10	0.5	20k-	5	0.1	1.5	0.1	0.1m	125	5	10m	-	-	D5943	Darlington
B5105	40	30	5	2	82-390	2	1	0.33	2	0.1	-	-	-	-	-	-	Low VCE(sat)
A5916	30	30	6	3	120-390	2	0.1	0.5	2	0.1	190*	10	0.5	35*	10	-	Very Low VCE(sat)
BP010	40	32	5	0.5	82-390	3	10m	0.4	0.1	10m	200*	5	20m	7.5*	10	DP010	Low VCE(sat)
B5994	40	32	5	0.8	68-400	3	0.1	0.4	0.5	50m	100	5	50m	25	10	D5994	High VEBO
A5926	40	32	5	2	82-390	3	0.5	0.8	2	0.2	130*	5	0.5	17*	10	C5926	Low VCE(sat)
B5023	40	32	5	2	82-433	3	0.5	0.8	2	0.2	100*	5	0.5	50*	10	D5023	Low VCE(sat)
AP969	40	35	25	0.15	100-400	0.15	12m	0.2	24m	1m	30*	6	10m	20*	6	-	High VEBO
AP963	40	40	5	0.2	100-300	1	10m	0.4	50m	5m	250	20	10m	4.5	5	CP963	High Speed Switching
AP882	40	40	6	0.2	100-300	1	10m	0.4	50m	5m	250	20	10m	4.5	5	-	High Speed Switching
AP981	40	40	6	0.2	90-333	1	10m	0.4	50m	5m	250	20	10m	4.5	5	CP981	High Speed Switching
AP089	40	40	5	0.2	90-333	1	10m	0.4	50m	5m	250	20	10m	4	5	-	Low VCE(sat)
A5976	40	40	5	0.5	90-365	2	0.15	0.75	0.5	50m	200	20	50m	10	10	-	Low VCE(sat)
AP086	40	40	5	0.5	90-365	2	0.15	0.75	0.5	50m	200	20	50m	10	10	-	High Speed Switching
AP940	40	40	5	0.6	100-300	2	0.15	0.75	0.5	50m	200	10	20m	8.5	10	-	High Speed Switching
A5893	40	40	5	1	300-800	5	0.1	0.5	1	0.1	150	10	50m	10	10	C5893	Very Low VCE(sat)

**Phenitec Original PNP Bipolar Transistor Characteristics Table**

\*= typical, \$=VCER, #=VCES

Chip	VCBO (V)	VCEO (V)	VEBO (V)	IC (A)	hFE (-)	VCE(sat)		VCE(sat) (V)	IC(A)	IB(A)	fT (MHz)	Cob		Cob (pF)	VCB(V)	Complementary Product	Comment
						VCE(V)	IC(A)					VCE(V)	IE(A)				
AP079	40	40	5	1	40-120	1	0.5	1	1	0.1	-	-	-	-	-	-	High Speed Switching
A5862	40	40	5	2	300-600	2	0.1	0.255	1	50m	100	10	0.1	28	10	C5862	Very Low VCE(sat)
A5866	40	40	5	2	300-600	2	0.1	0.255	1	50m	100	10	0.1	28	10	C5866	Very Low VCE(sat)
A5886	40	40	6	5	250-	2	0.5	0.16	2	0.2	60	10	0.1	105	10	C5886	Very Low VCE(sat)
A5888	50	40	7.5	5.5	200-550	2	0.5	0.185	5.5	0.55	152*	10	50m	53*	10	-	Very Low VCE(sat)
BP865	50	40	5	10	90-260	2	3	0.6	10	0.33	40*	10	0.5	300*	10	-	Low VCE(sat)
B5849	50	45	5	0.5	100-600	1	0.1	0.7	0.5	50m	100	5	10m	5*	10	D5849	Very Low VCE(sat)
B5016	50	45	5	0.5	100-600	1	0.1	0.7	0.5	50m	100	5	10m	6*	10	D5016	Low VCE(sat)
BP876	60	45 \$	5	1	2k-	10	0.5	1.3	0.5	0.5m	200*	5	0.1	-	-	-	Darlington
A5887	50	50	5	0.1	120-400	6	2m	0.3	0.1	10m	80	10	1m	1.6*	10	C5887	Low VCE(sat)
A5335	50	50	5	0.2	63-555	6	1m	0.3	0.1	10m	140*	12	2m	5	12	C5333	Low VCE(sat)
A5977	50	50	8	0.5	68-330	3	10m	0.55	0.15	15m	230*	5	50m	12	10	C5979	Low VCE(sat)
A5927	50	50	5	2	70-240	2	0.5	0.5	1	50m	110*	2	0.5	15*	10	-	Low VCE(sat)
A5914	50	50	7	2	200-500	2	0.3	0.2	1	33m	180*	2	0.3	20*	10	C5913	Very Low VCE(sat)
A5895	50	50	5	3	200-450	2	1	0.39	3	0.3	100	5	0.1	35	10	C5895	Very Low VCE(sat)
A5861	60	50	6	5	220-560	2	0.5	0.43	2	0.1	150*	10	0.5	50*	10	-(C5942)	Very Low VCE(sat)
A5975	60	60	5	0.5	100-300	10	0.15	0.4	0.15	15m	200	20	50m	8	10	-	Low VCE(sat)
AP088	60	60	5	0.5	90-333	10	0.15	1.6	0.5	50m	200	20	50m	10	10	-	High Speed Switching
AP941	60	60	5	0.6	100-300	10	50m	1.6	0.5	50m	200	20	50m	8	10	-	High Speed Switching
A5985	80	60	5	1	130-300	5	0.5	0.6	1	0.1	150	10	50m	12	10	C5985	Low VCE(sat)
A5901	80	60	5	1	100-	5	1	0.34	1	0.1	150	10	50m	15	10	C5901	Very Low VCE(sat)
A5864	80	60	6	1	200-400	2	0.1	0.3	1	33m	180*	2	0.1	20*	10	-	Very Low VCE(sat)
B5000	60	60	6	2	120-270	2	0.5	0.35	1	50m	200*	2	0.5	23*	10	-	Low VCE(sat)
A5907	80	60	5	3	100-300	2	0.5	0.6	3	0.3	100	5	0.1	30	10	-	Very Low VCE(sat)
A5988	100	60	6	5	120-300	1	2	0.46	5	0.5	130*	10	0.1	72*	10	C5988	Low VCE(sat)
BP005	80	80	4	0.2	100-	1	0.1	0.25	0.1	10m	50	1	0.1	-	-	DP005	Low VCE(sat)
A5847	80	80	4	0.5	100-	1	0.1	0.25	0.1	10m	50	10	0.1	-	-	-	Very Low VCE(sat)
A5903	80	80	4	0.5	100-	1	0.1	0.25	0.1	10m	50	10	0.1	-	-	-	Low VCE(sat)
BP013	80	80	5	0.7	56-777	3	0.1	0.4	0.5	50m	100*	10	50m	20	10	-	Low VCE(sat)
B5850	80	80	8	1	56-390	10	0.15	0.4	0.5	50m	200*	10	50m	20	10	D5850	Very Low VCE(sat)
B5213	80	80	8	1	56-390	10	0.15	0.4	0.5	50m	200*	10	50m	20	10	D5213	Low VCE(sat)

**Phenitec Original PNP Bipolar Transistor Characteristics Table**

\*= typical, \$=VCER, #=VCES

Chip	VCBO (V)	VCEO (V)	VEBO (V)	IC (A)	hFE (-)	VCE(sat)		VCE(sat) (V)	IC(A)	IB(A)	fT (MHz)	Cob		Cob (pF)	VCB(V)	Complementary Product	Comment
						VCE(V)	IC(A)					VCE(V)	IE(A)				
A5955	120	100	6	1	140-330	2	0.15	0.5	0.5	50m	100	5	50m	10	10	C5955	Low VCE(sat)
A5863	120	100	5	2	100-300	2	0.5	0.5	1	0.1	100	5	0.1	30	10	C5863	Very Low VCE(sat)
A5859	140	100	7	2	120-360	2	0.5	0.25	2	0.2	120*	5	0.1	22*	10	-	Very Low VCE(sat)
BP922	100	100	5	3	10-50	4	3	1.2	3	0.375	3	10	0.5	-	-	DP922	Low VCE(sat)
A5987	140	100	6	5	120-300	1	1	0.42	4	0.4	150*	10	0.1	45*	10	C5987	Low VCE(sat)
A5871	180	140	7	4	100-300	5	1	0.37	3	0.3	120*	10	0.1	33*	10	-	Very Low VCE(sat)
A5924	180	140	6	4	100-300	5	1	0.37	3	0.3	100*	10	0.1	40*	20	-	Very Low VCE(sat)
A5983	160	150	5	0.6	90-270	5	10m	0.5	50m	5m	100-300	10	10m	6	10	C5983, C5953	Low VCE(sat)
A5951	180	160	5	1.5	80-360	5	0.15	1	0.5	50m	180*	5	0.15	24*	10	C5951	Low VCE(sat)
A5952	200	200	6	1	60-280	5	0.2	0.5	0.5	50m	130*	5	0.2	20*	10	-	Low VCE(sat)
A5923	220	200	6	2	100-300	5	1	0.275	2	0.4	90*	10	0.1	32*	20	-	Very Low VCE(sat)
AP872	300	300	7	50m	54-310	10	10m	0.5	10m	1m	60*	10	10m	1.8*	20	CP872	High Voltage Driver
AP020	300	300	7	0.1	60-280	10	10m	0.5	0.1	10m	65*	10	10m	4.5	20	CP020	High Voltage Driver
AP971	300	300	7	0.3	60-280	10	10m	0.5	0.1	10m	70*	10	10m	3.5*	20	CP971	High Voltage Driver
AP964	400	400	7	0.3	70-200	10	20m	0.5	50m	5m	50	10	20m	7	20	CP964, CP956	High Voltage Driver
AP958	400	400	6	0.3	80-300	10	10m	0.75	50m	5m	50	10	10m	3.5*	20	CP958	High Voltage Driver
<b>New</b> AP845	400	400	7	0.5	140-450	5	20m	1	0.1	10m	35*	5	50m	18*	10	-	High Voltage Driver
AP884	500	500	5	0.15	150-300	10	1m	0.5	50m	10m	50	20	10m	8	20	CP884	High Voltage Driver
AP870	600	600	7	0.28	54-310	5	10m	0.5	10m	1m	25*	10	10m	14*	10	-	High Voltage Driver
AP925T	600	600	7	1	95-410	5	50m	1.05	0.1	10m	30*	10	50m	40*	10	-	High Voltage Driver
AP925	600	600	7	1	30-120	5	0.1	1	0.3	60m	25*	10	50m	40*	10	-	High Voltage Driver