

**NPN HIGH CURRENT GENERAL PURPOSE MEDIUM SPEED AMPLIFIERS**

Type NPN	Maximum Ratings				Electrical Characteristics @ 25°C						Case
	Pd Ambient mW	VCB Volts	VCE Volts	VEB Volts	HFE @ IC		VCE(Sat) @ IC/IB		ft MHz Min	Cob pF Max	
					Min/Max	mA	Volts	mA/mA			
2N4237	800	50	40	6	30/150	250	0.6	1A/100	2	100	TO-39
2N5321	1000	75	50	5	40/250	500	0.8	500/50	50	30	TO-39
2N1714	800	90	60	6	20/60	200	2.0	200/20	16	50	TO-39
2N1716	800	90	60	6	40/120	200	2.0	200/20	16	50	TO-39
2N1718	2000	90	60	6	20/60	200	2.0	200/20	16	50	T-20
2N1720	2000	90	60	6	40/120	200	2.0	200/20	16	50	T-20
2N3418	800	85	60	8	20/60	1A	1.2	1A/100	40	130	TO-39
2N3420	800	85	60	8	40/120	1A	1.2	1A/100	40	130	TO-39
2N4238	800	80	60	6	30/150	250	0.6	1A/100	2	100	TO-39
2N5320	1000	100	75	7	30/130	500	0.5	500/50	50	30	TO-39
2N2987	1000	95	80	7	25/75	200	0.8	200/20	30	50	TO-39
2N2989	1000	95	80	7	60/120	200	0.8	200/20	30	50	TO-39
2N2991	2000	95	80	7	25/75	200	0.8	200/20	30	50	T-20
2N2993	2000	95	80	7	60/120	200	0.8	200/20	30	50	T-20
2N3419	800	125	80	8	20/60	1A	1.2	1A/100	40	130	TO-39
2N3421	800	125	80	8	40/120	1A	1.2	1A/100	40	130	TO-39
2N4239	800	100	80	6	30/150	250	0.6	1A/100	2	100	TO-39
2N4000	1000	100	80	6	20/60	200	2.0	500/50	40	60	TO-39
2N4300	1000	100	80	8	30/120	500	0.3	1A/100	30	40	TO-39
2N1715	800	150	100	8	30/120	1A	0.3	200/20	16	50	TO-39
2N1717	800	150	100	6	40/120	200	2.0	200/20	16	50	TO-39
2N1719	2000	150	100	6	20/60	200	2.0	200/20	16	50	T-20
2N1721	2000	150	100	6	40/120	200	2.0	200/20	16	50	T-20
2N2988	1000	155	100	7	25/75	200	0.8	200/20	30	50	TO-39
2N2990	1000	155	100	7	60/120	200	0.8	200/20	30	50	TO-39
2N2992	2000	155	100	7	25/75	200	0.8	200/20	30	50	T-20
2N2994	2000	155	100	7	60/120	200	0.8	200/20	30	50	T-20
2N5681	1000	100	100	4	40/150	250	0.6	250/25	30	50	TO-39
2N4001	1000	120	100	8	40/120	500	0.3	50/50	40	60	TO-39
2N5682	1000	120	120	4	40/150	250	0.6	250/25	30	50	TO-39

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2N4234	1000	40	40	7	30/150	250	0.6	1A/125	3	100	TO-39
2N5323	1000	75	50	5	40/250	500	0.8	500/50	50	40	TO-39
2N4026	500	60	60	5	40/120	100	0.15	150/15	100	20	TO-18
2N4028	500	60	60	5	100/300	100	0.15	150/15	150	20	TO-18
2N4030	800	60	60	5	40/120	100	0.15	150/15	100	20	TO-39
2N4032	800	60	60	5	100/300	100	0.15	150/15	150	20	TO-39
2N4235	1000	60	60	7	30/150	250	0.6	1A/125	3	100	TO-39
2N5322	1000	100	75	7	30/130	500	0.5	500/50	50	40	TO-39
2N4027	500	80	80	5	40/120	100	0.15	150/15	100	20	TO-18
2N4029	500	80	80	5	100/300	100	0.15	150/15	150	20	TO-18
2N4031	800	80	80	5	40/120	100	0.15	150/15	100	20	TO-39
2N4236	1000	80	80	7	30/150	250	0.6	1A/125	3	100	TO-39
2N4033	800	80	80	5	100/300	100	0.15	150/15	150	20	TO-39
2N4404	1250	80	80	5	40/120	150	0.2	150/15	200	10	TO-39
2N4405	1250	80	80	5	100/300	150	0.2	150/15	200	10	TO-39
2N4406	1250	80	80	5	25/100	150	0.2	150/15	150	15	TO-39
2N4407	1250	80	80	5	75/225	150	0.2	150/15	150	15	TO-39
2N5333	1000	100	80	6	30/120	1A	1	2A/.4A	30	30	TO-39
2N5679	1000	100	100	4	40/150	250	0.5	250/25	30	50	TO-39
2N5680	1000	120	120	4	40/150	250	0.6	250/25	30	50	TO-39

**HIGH SPEED LOGIC SWITCHES**

Type NPN	Maximum Ratings				Electrical Characteristics @ 25°C								Case
	Pd Ambient mW	VCB Volts	VCE Volts	VEB Volts	HFE @ IC		VCE(Sat) @ IC/IB		ft MHz Min	Cob pF Max	tON ns Max	tOFF ns Max	
					Min/Max	mA	Volts	mA/mA					
2N709	300	15	6	4	30/125	10	0.25	10/1	600	3	12	12	TO-18
2N709A	300	15	6	4	30/90	10	0.3	3/.15	800	3	15	15	TO-18
2N2784	300	15	6	6	40/120	10	0.26	3/.15	700	3	9	9	TO-52
2N3010	300	15	6	4	25/125	10	0.25	10/1	600	3	12	12	TO-18
2N3058	400	6	6	6	40/160	0.1	0.05	.001/.001	-	10	-	-	TO-46