

# Discrete Devices

# Transistors (Cont.)

## General Purpose Amplifiers (Cont.)

Type	Polarity	Maximum Ratings				Electrical Characteristics @ 25° C							Package
		PD Ambient mW	V <sub>CB</sub> Volts	V <sub>CE</sub> Volts	V <sub>EB</sub> Volts	H <sub>FE</sub> @ I <sub>C</sub>		V <sub>CE(Sat)</sub> @ I <sub>C</sub> /I <sub>B</sub>		f <sub>t</sub> MHz Min	C <sub>ob</sub> pF Max		
						Min/Max	mA	Volts	mA/mA				
2N1990	NPN	600	100	—	3	20/—	30	0.5	2/0.2	40	20	TO-39	
2N2008	NPN	800	175	110	8	40/120	50	2.5	25/5	40	15	TO-39	
2N2102	NPN	1000	120	65	7	40/120	150	0.5	150/15	60	15	TO-39	
2N2102A	NPN	1000	120	65	7	40/120	150	0.3	150/15	60	15	TO-39	
2N2192	NPN	800	60	40	5	100/300	150	0.35	150/15	50	20	TO-39	
2N2192A	NPN	800	60	40	5	100/300	150	0.25	150/15	50	20	TO-39	
2N2192B	NPN	800	60	40	5	100/300	150	0.18	150/15	50	20	TO-39	
2N2193	NPN	800	80	50	8	40/120	150	0.35	150/15	50	20	TO-39	
2N2193A	NPN	800	80	50	8	40/120	150	0.25	150/15	50	20	TO-39	
2N2193B	NPN	800	80	50	8	40/120	150	0.18	150/15	50	20	TO-39	
2N2194	NPN	800	60	40	5	20/60	150	0.35	150/15	50	20	TO-39	
2N2194A	NPN	800	60	40	5	20/60	150	0.25	150/15	50	20	TO-39	
2N2194B	NPN	800	60	40	5	20/60	150	0.18	150/15	50	20	TO-39	
2N2195	NPN	800	45	25	5	20/—	150	0.35	150/15	50	20	TO-39	
2N2195A	NPN	800	45	25	5	20/—	150	0.25	150/15	50	20	TO-39	
2N2195B	NPN	800	45	25	5	20/—	150	0.18	150/15	50	20	TO-39	
2N2243	NPN	800	120	80	7	40/120	150	0.35	150/15	50	15	TO-39	
2N2243A	NPN	800	120	80	7	40/120	150	0.25	150/15	50	15	TO-39	
2N2270	NPN	1000	60	45	7	50/200	150	0.9	150/15	100	15	TO-39	
2N2297	NPN	800	80	35	7	40/120	150	0.2	150/15	60	12	TO-39	
2N2303	PNP	600	50	35	5	35/200	150	1.5	150/15	50	45	TO-39	
2N2309	NPN	600	30	30	5	25/125	0.2	—	—	40†	25	TO-39	
2N2310	NPN	350	60	60	8	12/36	200	5.0	200/40	40†	20†	TO-46	
2N2311	NPN	350	100	100	8	12/36	200	5.0	200/40	40†	20†	TO-46	
2N2312	NPN	350	60	60	8	30/90	200	5.0	200/40	40†	20†	TO-46	
2N2313	NPN	350	100	100	8	30/90	200	5.0	200/40	40†	20†	TO-46	
2N2314	NPN	350	60	40*	5	20/60	150	5.0	150/15	40	35	TO-46	
2N2315	NPN	350	60	40*	5	40/120	150	1.5	150/15	50	35	TO-46	
2N2316	NPN	350	120	80*	5	40/120	150	5.0	150/15	50	20	TO-46	
2N2317	NPN	350	75	50*	7	40/120	150	1.5	150/15	60	25	TO-46	
2N2350	NPN	400	60	40	5	100/300	150	0.35	150/15	50	20	TO-46	
2N2350A	NPN	400	60	40	5	100/300	150	0.25	150/15	50	20	TO-46	
2N2351	NPN	400	80	50	8	40/120	150	0.35	150/15	50	20	TO-46	
2N2351A	NPN	400	80	50	8	40/120	150	0.25	150/15	50	20	TO-46	
2N2352	NPN	400	60	40	5	20/60	150	0.35	150/15	50	20	TO-46	
2N2352A	NPN	400	60	40	5	20/60	150	0.25	150/15	50	20	TO-46	
2N2353	NPN	350	45	25	5	20/—	150	0.35	150/15	50	20	TO-46	
2N2353A	NPN	350	45	25	5	20/—	150	0.25	150/15	50	20	TO-46	
2N2364	NPN	400	120	80	7	40/120	150	0.35	150/15	50	15	TO-46	
2N2364A	NPN	400	120	80	7	40/120	150	0.25	150/15	50	15	TO-46	
2N2405	NPN	1000	120	90	7	60/200	150	0.5	150/15	40†	15	TO-39	
2N2645	NPN	500	75	50	7	100/300	150	0.4	10/1	50	25	TO-18	
2N2868	NPN	800	60	40	7	40/120	150	0.25	150/15	50	20	TO-39	
2N2895	NPN	500	120	65	7	40/120	150	0.5	500/50	120	15	TO-18	
2N2896	NPN	500	140	90	7	60/200	150	0.5	500/50	120	15	TO-18	

\*BV<sub>CE R</sub> < 10Ω

†Typical Values