

HIGH-SPEED, MEDIUM CURRENT SWITCHES / AMPLIFIERS

Type No.	POLARITY	P _D @ 25 °C mW Max.	MAX. RATING			I _{CBO} nA Max.	CURRENT AMPLI. FACTOR			Saturation Voltage (Max.)				f _T Min (MHz)	C _{ob} (pF)
			V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts		h _{FE} @ I _C =10mA Min.-Max.	h _{FE} @ I _C =150mA Min.-Max.	h _{FE} @ I _C =500mA Min.-Max.	I _C mA	I _B mA	V _{CE} Volts	V _{BE} Volts		
2N2221	NPN	500	60	30	5	10	35	40-120	20	150	15	0.40	1.6	250	8
2N2221A	NPN	500	75	40	6	10	35	40-120	25	150	15	0.30	1.2	250	8
2N2222	NPN	500	60	30	5	10	75	100-300	30	150	15	0.40	1.6	250	8
2N2222A	NPN	500	75	40	6	10	75	100-300	40	150	15	0.30	1.2	300	8
2N2369	NPN	400	40	15	4.5	400	40-120	—	—	10	1	0.25	0.85	500	4
2N2906	PNP	400	60	40	5	20	35	40-120	20	150	15	0.40	1.3	200	8
2N2906A	PNP	400	60	60	5	10	40	40-120	30	150	15	0.40	1.3	200	8
2N2907	PNP	400	60	40	5	20	75	100-300	40	150	15	0.40	1.3	200	8
2N2907A	PNP	400	60	60	5	10	100	100-300	50	150	15	0.40	1.3	200	8
2N3115	NPN	400	60	20	5	25	—	40-120	—	150	15	0.50	1.3	250	8
2N3116	NPN	400	60	20	5	25	—	100-300	—	150	15	0.50	1.3	250	8
2N3135	PNP	400	50	35	4	50	25①	40-120	—	150	15	0.60	1.5	200	10
2N3136	PNP	400	50	35	4	50	50①	100-300	—	150	15	0.60	1.5	200	10
TN-54	NPN	500	75	45	5	10	40	50	20	150	15	0.50	1.3	100	8
TN-60	NPN	500	40	30	5	20	—	100	30	150	15	0.40	1.3	100	8
TN-62	NPN	500	40	30	5	20	40	50	30	150	15	0.40	1.3	100	8
TN-64	NPN	500	20	20	5	100	25	25	—	150	15	0.50	1.3	20	8
TQ-60	PNP	400	40	30	5	20	50①	100	30	150	15	0.40	1.3	100	8
TQ-62	PNP	400	40	30	5	20	40①	50	30	150	15	0.40	1.3	100	8
TQ-64	PNP	400	20	20	5	100	—	25	—	150	15	0.50	1.3	20	8
2N1469	PNP	600	40	35	40	25	36-88①	—	—	—	—	—	—	2	12
2N1469A	PNP	600	40	35	40	25	36-88①	—	—	—	—	—	—	2	12
2N2218	NPN	800	60	30	5	10	35	40-120	20	150	15	0.40	1.6	250	8
2N2218A	NPN	800	75	40	6	10	35	40-120	25	150	15	0.30	1.2	250	8
2N2219	NPN	800	60	30	5	10	75	100-300	30	150	15	0.40	1.6	250	8
2N2219A	NPN	800	75	40	6	10	75	100-300	40	150	15	0.30	1.2	300	8
2N2904	PNP	600	60	40	5	20	35	40-120	20	150	15	0.40	1.3	200	8
2N2904A	PNP	600	60	60	5	10	40	40-120	30	150	15	0.40	1.3	200	8
2N2905	PNP	600	60	40	5	20	75	100-300	40	150	15	0.40	1.3	200	8
2N2905A	PNP	600	60	60	5	10	100	100-300	50	150	15	0.40	1.3	200	8
2N2958	NPN	600	60	20	5	25	—	40-120	—	150	15	0.50	1.3	250	8
2N2959	NPN	600	60	20	5	25	—	100-300	—	150	15	0.50	1.3	250	8
2N3133	PNP	600	50	35	4	50	25①	40-120	—	150	15	0.60	1.5	200	10
2N3134	PNP	600	50	35	4	50	50①	100-300	—	150	15	0.60	1.5	200	10
TN-53	NPN	800	75	45	5	10	40	50	20	150	15	0.50	1.3	100	8
TN-59	NPN	800	40	30	5	20	—	100	30	150	15	0.40	1.3	100	8
TN-61	NPN	800	40	30	5	20	40	50	30	150	15	0.40	1.3	100	8
TN-63	NPN	800	20	20	5	100	25	25	—	150	15	0.50	1.3	20	8
TQ-59	PNP	600	40	30	5	20	50①	100	30	150	15	0.40	1.3	100	8
TQ-61	PNP	600	40	30	5	20	40	50	30	150	15	0.40	1.3	100	8
TQ-63	PNP	600	20	20	5	100	—	25	—	150	15	0.50	1.3	20	8



① I_C = 1mA ② I_CEX ③ I_C = 100mA