

Transistors (Cont.)

Differential and Dual Amplifiers (Cont.)

Discrete Devices

Type	Polarity	Maximum Ratings					Electrical Characteristics @ 25°C (One Side)						Tracking		f _t MHz Min	Package
		Ambient P _D		V _{CB} Volts	V _{CE} Volts	V _{EB} Volts	HFE @ I _C		V _{CE(Sat)} @ I _C /I _B		Matching		ΔV _{BE} ΔT -55°C to +125°C in μV/°C			
		One Side mW	Both Sides mW				Min/Max	mA	Volts	mA/mA	HFE %	V _{BE} in mV				
2N2977	NPN	250	300	45	45	6	150/600	0.01	0.35	1/0.1	20	5	20	60	TO-71	
2N2978	NPN	250	300	60	60	6	60/240	0.01	0.35	1/0.1	10	3	10	60	TO-71	
2N2979	NPN	250	300	60	60	6	150/600	0.01	0.35	1/0.1	10	3	10	60	TO-71	
2N2980	NPN	250	300	100	60	7	30/90	0.1	1.2	50/5	10	3	10	60	TO-71	
2N2981	NPN	250	300	100	60	7	25/150	0.1	1.2	50/5	20	15	25	50	TO-71	
2N2982	NPN	250	300	100	60	7	25/150	0.1	1.2	50/5	10	5	15	50	TO-71	
2N3043	NPN	250	350	45	45	5	100/300	0.01	1.0	10/0.5	10	5	10	30	TO-89	
2N3044	NPN	250	350	45	45	5	100/300	0.01	1.0	10/0.5	20	10	20	30	TO-89	
2N3045	NPN	250	350	45	45	5	100/300	0.01	1.0	10/0.5	—	—	—	30	TO-89	
2N3046	NPN	250	350	45	45	5	50/200	0.01	1.0	10/0.5	10	5	10	30	TO-89	
2N3047	NPN	250	350	45	45	5	50/200	0.01	1.0	10/0.5	20	10	20	30	TO-89	
2N3048	NPN	250	350	45	45	5	50/200	0.01	1.0	10/0.5	—	—	—	30	TO-89	
2N3347	PNP	300	600	60	45	6	40/300	0.01	0.5	10/0.5	10	5	10	60	TO-78	
2N3348	PNP	300	600	60	45	6	40/300	0.01	0.5	10/0.5	20	10	20	60	TO-78	
2N3349	PNP	300	600	60	45	6	40/300	0.01	0.5	10/0.5	40	20	40	60	TO-78	
2N3350	PNP	300	600	60	45	6	100/300	0.01	0.5	10/0.5	10	5	10	60	TO-78	
2N3351	PNP	300	600	60	45	6	100/300	0.01	0.5	10/0.5	20	10	20	60	TO-78	
2N3352	PNP	300	600	60	45	6	100/300	0.01	0.5	10/0.5	40	20	40	60	TO-78	
2N3423	NPN	300	600	30	15	3	20/200	3.0	0.4	10/1	20	10	40	600	TO-78	
2N3424	NPN	300	600	30	15	3	20/200	3.0	0.4	10/1	10	5	20	600	TO-78	
2N3425	NPN	300	400	40	15	5	30/120	10	0.4	10/1.0	—	—	—	300	TO-75	
2N3726	PNP	400	500	45	45	5	135/350	1.0	0.25	50/2.5	10	5	20	200	TO-78	
2N3727	PNP	400	500	45	45	5	135/350	1.0	0.25	50/2.5	10	2.5	10	200	TO-78	
2N3728	NPN	450	550	60	30	5	80/280	150.0	0.22	150/15	20	5	20	250	TO-78	
2N3729	NPN	450	550	60	30	5	80/280	150.0	0.22	150/15	10	3	10	250	TO-78	
2N3800	PNP	250	360	60	60	5	100/400	0.01	0.20	0.1/0.01	—	—	—	100	TO-71	
2N3801	PNP	250	360	60	60	5	225/700	0.01	0.20	0.1/0.01	—	—	—	100	TO-71	
2N3802	PNP	250	360	60	60	5	100/400	0.01	0.20	0.1/0.01	20	5	20	100	TO-71	
2N3803	PNP	250	360	60	60	5	225/700	0.01	0.20	0.1/0.01	20	5	20	100	TO-71	
2N3804	PNP	250	360	60	60	5	100/400	0.01	0.20	0.1/0.01	10	3	10	100	TO-71	
2N3804A	PNP	250	360	60	60	5	100/400	0.01	0.20	0.1/0.01	5	1.5	5	100	TO-71	
2N3805	PNP	250	360	60	60	5	225/700	0.01	0.20	0.1/0.01	10	3	10	100	TO-71	
2N3805A	PNP	250	360	60	60	5	225/700	0.01	0.20	0.1/0.01	5	1.5	5	100	TO-71	
2N3806	PNP	500	600	60	60	5	100/400	0.01	0.20	0.1/0.01	—	—	—	100	TO-78	
2N3807	PNP	500	600	60	60	5	225/700	0.01	0.20	0.1/0.01	—	—	—	100	TO-78	
2N3808	PNP	500	600	60	60	5	100/400	0.01	0.20	0.1/0.01	20	5	20	100	TO-78	
2N3809	PNP	500	600	60	60	5	225/700	0.01	0.20	0.1/0.01	20	5	20	100	TO-78	
2N3810	PNP	500	600	60	60	5	100/400	0.01	0.20	0.1/0.01	10	3	10	100	TO-78	
2N3810A	PNP	500	600	60	60	5	100/400	0.01	0.20	0.1/0.01	5	1.5	5	100	TO-78	
2N3811	PNP	500	600	60	60	5	225/700	0.01	0.20	0.1/0.01	10	3	10	100	TO-78	
2N3811A	PNP	500	600	60	60	5	225/700	0.01	0.20	0.1/0.01	5	1.5	5	100	TO-78	
2N3812	PNP	250	350	60	60	5	100/400	0.01	0.20	0.1/0.01	—	—	—	100	TO-89	
2N3813	PNP	250	350	60	60	5	225/700	0.01	0.20	0.1/0.01	—	—	—	100	TO-89	
2N3814	PNP	250	350	60	60	5	100/400	0.01	0.20	0.1/0.01	20	5	20	100	TO-89	
2N3815	PNP	250	350	60	60	5	225/700	0.01	0.20	0.1/0.01	20	5	20	100	TO-89	