

# Discrete Devices

# Transistors (Cont.)

## Choppers

Type	Polarity	Maximum Ratings				Electrical Characteristics @ 25°C								C <sub>ob</sub> pF Max	Package
		P <sub>D</sub> Ambient mW	V <sub>CE</sub> Volts	V <sub>CE</sub> Volts	V <sub>EB</sub> Volts	HFE @ I <sub>C</sub>		V <sub>CE</sub> (Sat) @ I <sub>C</sub> /I <sub>B</sub>		V <sub>O</sub> @ I <sub>B</sub>		r <sub>d</sub> @ I <sub>B</sub>			
						Min/Max	mA	Volts	mA/mA	mV	mA	Ohms	mA		
2N943	PNP	250	40	18	40	10/-	0.1	-	-	2.0	0.5	-	-	14	TO-18
2N2004	PNP	250	50	15	50	-	-	-	-	-	-	30	1.0	20	TO-39
2N2333	PNP	150	15	15	5	-	-	-	-	2.75	0.2	50	1.0	20	TO-18
2N2944	PNP	400	15	10	15	80/-	1.0	0.3*	10/2	0.6	1.0	20	1.0	10	TO-46
2N2945	PNP	400	25	20	25	40/-	1.0	0.3*	10/2	1.0	1.0	35	1.0	10	TO-46
2N2945A	PNP	400	25	20	25	70/-	1.0	0.3*	10/2	0.5	0.2	6	1.0	10	TO-46
2N2946	PNP	400	40	35	40	30/-	1.0	0.3*	10/2	2.0	1.0	45	1.0	10	TO-46
2N2946A	PNP	400	40	35	40	50/-	1.0	0.3*	10/2	0.8	0.2	8	1.0	10	TO-46
2N3217	PNP	400	15	10	15	30/-	1.0	0.3*	10/2	1.0	0.2	30	1.0	14	TO-46
2N3218	PNP	400	25	20	25	30/-	1.0	0.3*	10/2	2.0	0.2	50	1.0	14	TO-46
2N3219	PNP	400	40	35	40	20/-	1.0	0.3*	10/2	3.0	0.2	60	1.0	14	TO-46
2N3910	PNP	500	60	50	50	40/160	1.0	0.3	10/2	0.8	0.2	15	1.0	8	TO-46
2N3911	PNP	500	60	40	40	60/240	1.0	0.3	10/2	0.5	0.2	10	1.0	8	TO-46
2N3913	PNP	400	60	50	50	40/160	1.0	0.3	10/2	0.8	0.2	15	1.0	8	TO-18
2N3914	PNP	400	60	40	40	60/240	1.0	0.3	10/2	0.5	0.2	10	1.0	8	TO-18

\*Typical Values

## UHF Amplifiers

Type	Polarity	Maximum Ratings				Electrical Characteristics @ 25°C										Package
		P <sub>D</sub> Ambient mW	V <sub>CB</sub> Volts	V <sub>CE</sub> Volts	V <sub>EB</sub> Volts	HFE @ I <sub>C</sub>		f <sub>t</sub> MHz Min	C <sub>ob</sub> pF Max	G <sub>PE</sub> @ f		P <sub>O</sub> @ f		NF @ f		
						Min/Max	mA			dB Min	MHz	mW Min	MHz	dB Max	MHz	
2N869A	PNP	360	25	18	5	40/120	30	400	6	-	-	-	-	-	-	TO-18
2N915	NPN	360	70	50	5	50/200	10	250	3.5	10*	100	-	-	2	1.0	TO-18
2N916	NPN	360	45	25	5	50/200	10	300	6.0	10*	100	-	-	2	1.0	TO-18
2N917	NPN	200	30	15	3	20/200	3	500	1.7	9	200	10	500	6	60.0	TO-72
2N917A	NPN	200	30	15	3	20/200	3	600	1.7	15	200	20	500	6	60.0	TO-72
2N918	NPN	200	30	15	3	20/-	3	600	1.7	15	200	30	500	6	60.0	TO-72
2N957	NPN	250	40	20	5	45/-	10	200	6.0	10*	100	-	-	2	1.0	TO-18
2N2708	NPN	200	35	20	3	30/200	2	700	1.0	15	200	20*	500	7.5	200.0	TO-72
2N2865	NPN	200	25	13	3	20/200	4	600	2.5	16.5	200	40	500	4.5	200.0	TO-72
2N2894	PNP	360	12	12	4	40/150	30	400	6	-	-	-	-	-	-	TO-18
2N3012	PNP	360	12	12	4	30/120	30	400	6	-	-	-	-	-	-	TO-18
2N3209	PNP	360	20	20	4	30/120	30	400	5	-	-	-	-	-	-	TO-18
2N3545	PNP	360	20	20	5	40/120	10	250	8	-	-	-	-	-	-	TO-18
2N3959	NPN	400	20	12	4.5	40/400	10	1300	2.5	-	-	-	-	-	-	TO-18
2N3960	NPN	400	20	12	4.5	40/400	10	1600	2.5	-	-	-	-	-	-	-
2N4208	PNP	350	12	12	4.5	30/120	0.3	700	3	-	-	-	-	-	-	TO-18
2N4209	PNP	350	15	15	4.5	50/120	0.3	850	3	-	-	-	-	-	-	TO-18
2N4260	PNP	200	15	15	4.5	30/150	10	1600	2.5	-	-	-	-	-	-	TO-72
2N4261	PNP	200	15	15	4.5	30/150	10	2000	2.5	-	-	-	-	-	-	TO-72

\*Typical Values