

**COLLECTOR CURRENT = 7 AMPS NPN TYPES**

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	θ <sub>JC</sub> °C/W	F <sub>t</sub> MHz
					Min	Max								
2N3878	TO-66	120	50	7	50	200	5	.5	2	2.5	4	.4	5	60
2N3879	TO-66	120	75	7	12	100	2	4	1.2	2	4	.4	5	60
2N5202	TO-66	100	50	6	10	100	1	4	1.2	1.9	4	.4	5	60
2N5326	TO-111/I	100	80	6	50	150	1	1	1	1.5	5	.5	3.33	80
2N5346	TO-111/I	100	80	6	30	120	2	2	.7	1.2	2	.2	3.33	30
2N5348	TO-111/I	100	100	6	30	120	2	2	.7	1.2	2	.2	3.33	30
2N5349	TO-111/I	100	100	6	60	240	2	2	.7	1.2	2	.2	3.33	30

**COLLECTOR CURRENT = 8 AMPS NPN TYPES**

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	θ <sub>JC</sub> °C/W	F <sub>t</sub> MHz
					Min	Max								
2N3773	TO-3	160	140	7	15	60	4	8	1.4	2.2	8	.8	1.2	.8

**COLLECTOR CURRENT = 10 AMPS NPN TYPES**

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	θ <sub>JC</sub> °C/W	F <sub>t</sub> MHz
					Min	Max								
2N1724	TO-61	120	80	10	20	90	15	2	1	2	2	.2	2	10
2N1724A	TO-61	180	120	10	30	90	15	2	.6	1.2	2	.2	1.5	10
2N1725	TO-61	120	80	10	50	150	15	2	1	2	2	.2	1.5	10
2N2811	TO-61	80	60	8	20	60	5	5	.5	1.2	5	.5	2	30
2N2812	TO-61	80	60	8	40	120	5	5	.5	1.2	5	.5	2	30
JAN 2N2812	TO-61	80	60	8	40	120	5	5	.5	1.2	5	.5	2	30
JTX 2N2812	TO-61	80	60	8	40	120	5	5	.5	1.2	5	.5	2	30
JTXV 2N2812	TO-61	80	60	8	40	120	5	5	.5	1.2	5	.5	2	30
2N2813	TO-61	120	80	8	20	60	5	5	.5	1.2	5	.5	2	30
2N2814	TO-61	120	80	8	40	120	5	5	.5	1.2	5	.5	2	30
JAN 2N2814	TO-61	120	80	8	40	120	5	5	.5	1.2	5	.5	2	30
JTX 2N2814	TO-61	120	80	8	40	120	5	5	.5	1.2	5	.5	2	30
JTXV 2N2814	TO-61	120	80	8	40	120	5	5	.5	1.2	5	.5	2	30
2N3442	TO-3	160	140	7	20	70	4	3	1	1.7	3	.3	1.5	.8
JAN * 2N3442	TO-3	160	140	7	20	70	4	3	1	1.7	3	.3	1.5	.8
2N3445	TO-3	80	60	6	20	60	5	3	1.5	1.5	3	.3	1.5	60
2N3446	TO-3	100	80	10	20	60	5	3	1.5	1.5	3	.3	1.5	60
2N3447	TO-3	80	60	6	40	120	5	5	1.5	1.5	5	.5	1.5	60
2N3448	TO-3	100	80	10	40	120	5	5	1.5	1.5	5	.5	1.5	60
2N3487	TO-61	80	60	10	20	60	5	3	1.2	1.5	3	.3	1.5	30
2N3488	TO-61	100	80	10	20	60	5	3	1.2	1.5	3	.3	1.5	30
2N3489	TO-61	120	100	10	15	45	5	3	1.2	1.5	3	.3	1.5	30
2N3490	TO-61	80	60	10	40	120	5	5	1.5	1.5	5	.5	1.5	30
2N3491	TO-61	100	80	10	40	120	5	5	1.5	1.5	5	.5	1.5	30
2N3492	TO-61	120	100	10	30	90	5	5	1.5	1.5	5	.5	1.5	30
2N3628	TO-5	75	40	4	30		10	5	1.5	1.8	5	.5	2.5	60
2N3629	STUD													
2N3630	TO-61	75	40	4	40		10	5	1.5	1.8	5	.5	2	60
2N3919	TO-3	120	60	6	40	120	2	2	1.2	1.8	10	1	1.2	80

\* (JTX & JTXV)

COLLECTOR CURRENT = 10 AMPS NPN TYPES—Continued

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	$\theta_{JC}$ °C/W	Ft MHz
					Min	Max								
2N3920	TO-3	120	60	6	100	300	2	2	1.2	1.8	10	1	1.2	80
2N4070	TO-3	120	100	8	40	120	5	5	.6	1.5	5	.5	1.5	20
2N4071	TO-3	200	150	8	40	120	5	5	.6	1.5	5	.5	1.5	20
2N4150	TO-5	100	80	5	40	120	5	5	.6	1.5	5	.5	25	60
JAN 2N4150	TO-5	100	80	5	40	120	5	5	.6	1.5	5	.5	25	60
JTX * 2N4150	TO-5	100	80	5	40	120	5	5	.6	1.5	5	.5	25	60
2N4301	TO-61	100	80	8	30	120	4	5	1	1.2	10	1.3	2	40
2N4347	TO-3	140	120	7	15	60	4	2	2	3	5	.63	1.75	1
2N4348	TO-3	140	120	7	15	60	4	5	1.4	2.2	5	.5	1.5	1
2N5006	TO-61/I	100	80	6	30	90	5	5	.9	1.8	5	.5	.2	40
2N5008	TO-61/I	100	80	6	70	200	5	5	.9	1.8	5	.5	.2	40
2N5048	TO-61	120	100	14	15	60	4	10	2	3	10	1	1.5	10
2N5049	TO-61	60	50	14	15	60	4	10	2.5	3	10	1	1.5	10
2N5083	TO-111/I	120	60	6	40	120	2	2	.5	1.3	5	.5	3.33	50
2N5084	TO-111/I	120	60	6	100	300	2	2	.5	1.3	5	.5	3.33	50
2N5085	TO-111/I	150	80	6	40	120	2	2	.5	1.3	5	.5	3.33	50
2N5152	TO-5	100	80	6	30	90	5	2.5	1.5	2.2	5	.5	25	60
2N5154	TO-5	100	80	6	70	200	5	2.5	1.5	2.2	5	.5	25	70
2N5218	TO-61	220	200	8	15	120	5	5	.5	1.2	2	.2	2	60
2N5237	TO-5	150	120	5	40	120	5	5	.6	1.5	5	.5	20	60
JAN 2N5237	TO-5	150	120	5	40	120	5	5	.6	1.5	5	.5	20	60
JTX * 2N5237	TO-5	150	120	5	40	120	5	5	.6	1.5	5	.5	20	60
2N5238	TO-5	200	170	5	40	120	5	5	.6	1.5	5	.5	20	60
2N5264	TO-3	300	180	6	30	300	2	1	.65	1.4	5	.5	1.2	50
2N5288	TO-61/I	120	100	6	30	90	5	5	.9	1.8	5	.5	1.5	50
2N5289	TO-61/I	120	100	6	70	200	5	5	.9	1.8	5	.5	1.5	50
2N5317	TO-61/I	80	80	6	30	90	5	5	.6	1.2	5	.5	2	30
2N5319	TO-61/I	100	100	6	30	90	5	5	.6	1.2	5	.5	2	30
2N5327	TO-5	100	80	5	100	300	2	1	.6	1.5	5	.25	20	80
2N5328	TO-111/I	100	80	5	50	150	5	5	.6	1.5	5	.25	3.33	80
2N5540	TO-61	325	300	8	20	60	5	5	2.5	2.5	10	2	2	20
2N5542	TO-61	175	130	8	30	90	5	5	2.5	2.5	10	1	2	20
2N5552	TO-5	120	80	7	50	150	5	5	.5	1.3	5	.5	25	50
2N5559	TO-3	150	120	7	12	60	2	4	.75	1.5	4	.4	1	1
2N5622	TO-3	80	60	6	70	200	5	5	1.5	2.2	10	1	1.5	40
2N5624	TO-3	100	80	6	30	90	5	5	1.5	2.2	10	1	1.5	40
2N5626	TO-3	100	80	6	70	200	5	5	1.5	2.2	10	1	1.5	40
2N5628	TO-3	120	100	6	30	90	5	5	1.5	2.2	10	1	1.5	40
2N5632	TO-3	100	100	7	25	100	2	5	1	2	7.5	.75	1.2	1
2N5633	TO-3	120	120	7	20	80	2	5	1	2	7.5	.75	1.2	1
2N5634	TO-3	140	140	7	15	60	2	5	1	2	7.5	.75	1.2	1
2N5730	TO-111/I	100	80	5	30	30	2	2	1.2	1.5	5	.5	3.33	60
2N5758	TO-3	100	100	7	25	100	2	3	1	1.5	3	.3	1.2	1
2N5759	TO-3	120	120	7	20	80	2	3	1	1.5	3	.3	1.2	1
2N5760	TO-3	140	140	7	15	60	2	3	1	1.5	3	.3	1.2	1
2N5854	TO-61/I	100	80	6	30	90	5	5	.9	1.8	5	.5	1.5	20
2N6128	TO-61/I	100	80	6	30	120	5	5	.9	1.8	5	.5	1.5	40
2N6232	TO-5	140	100	7	25	100	2	5	.7	1.4	5	.5	25	50

\* (JTXV)

## COLLECTOR CURRENT = 10 AMPS NPN TYPES—Continued

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	$\theta_{JC}$ °C/W	Ft MHz
					Min	Max								
2N6262	TO-3	170	150	7	20	70	2	3	1.5	2.2	1.5	.15	1.2	20
2N6350	TO-33	80	80	12	2K	10K	5	5	1.5	2.5	5	.005	20	30
2N6351	TO-33	150	150	12	1K	10K	5	5	1.5	2.5	5	.005	20	30
2N6352	TO-66/3	80	80	12	2K	10K	5	5	1.5	2.5	5	.005	4	30
2N6353	TO-66/3	150	150	12	1K	10K	5	5	1.5	2.5	5	.005	4	30
2N6354	TO-3	150	120	6	10	100	2	10	1	2	10	1	1.25	80
2N6383	TO-3	40	40	5	100		3	5	2	2.8	5	.1	1.75	20
2N6384	TO-3	60	60	5	100		3	5	2	2.8	5	.1	1.75	20
2N6385	TO-3	80	80	5	100		3	5	2	2.8	5	.1	1.75	20
2N6495	TO-66	150	80	6	10	60	3	10	1.5	2.2	10	.1	2	25

## COLLECTOR CURRENT = 10 AMPS PNP TYPES

Device No	Case	VCBO Volts	VCEO (sus) Volts	VEBO Volts	hFE		VCE	IC	VCE (sat)	VBE (sat)	@ IC	@ IB	$\theta_{JC}$ °C/W	Ft MHz
					Min	Max								
2N5007	TO-61/I	100	80	5.5	30	90	5	5	1.5	2.2	10	1	1.5	40
2N5009	TO-61/I	100	80	5.5	70	200	5	5	1.5	2.2	10	1	1.5	40
2N5151	TO-5	100	80	5.5	30	90	5	2.5	1.5	2.2	5	.5	25	60
2N5153	TO-5	100	80	5.5	70	200	5	2.5	1.5	2.2	5	.5	25	70
2N5290	TO-61/I	100	100	5.5	30	90	5	5	1.5	2.2	10	1	15	40
2N5291	TO-61/I	100	100	5.5	70	200	5	5	1.5	2.2	10	1	15	40
2N5316	TO-61/I	80	80	6	30	90	5	5	1	2	5	.5	2	40
2N5318	TO-61/I	100	100	6	30	90	5	5	1	2	5	.5	2	40
2N5386	TO-61	100	80	6	20	80	4	6	.6	1.2	6	.6	2	40
2N5621	TO-3	80	60	5.5	70	200	5	5	1.5	2.2	10	1	1.5	40
2N5623	TO-3	100	80	5.5	30	90	5	5	1.5	2.2	10	1	1.5	40
2N5625	TO-3	100	80	5.5	70	200	5	5	1.5	2.2	10	1	1.5	40
2N5627	TO-3	120	100	5.5	30	90	5	5	1.5	2.2	10	1	1.5	40
2N5677	TO-61	125	100	6	30	90	5	5	.6	1.2	5	.5	2	40
2N5737	TO-3	60	60	5	20	80	5	5	.5	1.2	5	.5	1.5	50
2N5738	TO-3	100	100	5	20	80	5	5	.5	1.2	5	.5	1.5	50
2N5739	TO-66	60	60	5	20	80	5	5	.5	1.2	5	.5	5	50
2N5740	TO-66	100	100	5	20	80	5	5	.5	1.2	5	.5	5	50
2N5853	TO-61/I	100	80	6	30	90	5	5	.9	1.8	5	.5	1.5	20
2N6127	TO-61/I	100	80	5	30	120	5	5	.9	1.8	5	.5	1.5	40
2N6186	TO-111/I	80	80	6	30	120	2	2	1.2	2	10	.1	2.9	30
2N6187	TO-111/I	80	80	6	60	240	2	2	1.2	2	10	.1	2.9	30
2N6188	TO-111/I	100	100	6	30	120	2	2	1.2	2	10	.1	2.9	30
2N6189	TO-111/I	100	100	6	60	240	2	2	1.2	2	10	.1	2.9	30
2N6190	TO-5	80	80	6	30	120	2	2	1.2	1.8	5	.5	17	50
2N6191	TO-5	80	80	6	60	240	2	2	1.2	1.8	5	.5	17	30
2N6192	TO-5	100	100	6	30	120	2	2	1.2	1.8	5	.5	17	50
2N6193	TO-5	100	100	6	60	240	2	2	1.2	1.8	5	.5	17	30
2N6226	TO-3	100	100	7	25	100	2	3	1	1.5	3	.3	1.2	1
2N6227	TO-3	120	120	7	20	80	2	3	1	1.5	3	.3	1.2	1