



**GENERAL PURPOSE AMPS AND SWITCHES** (Continued)

Type No.	Case Style	V <sub>CBO</sub> (V) Min	V <sub>CEO</sub> (V) Min	V <sub>EBO</sub> (V) Min	I <sub>CES</sub> * I <sub>CBO</sub> (nA) @ V <sub>CB</sub> (V)	h <sub>FE</sub> @ I <sub>C</sub> & V <sub>CE</sub>			V <sub>CE(SAT)</sub> & V <sub>BE(SAT)</sub> @ I <sub>C</sub>			C <sub>ob</sub> (pF) Max	f <sub>T</sub> (MHz) @ I <sub>C</sub>		t <sub>off</sub> (ns) Max	NF (dB) Max	Test Conditions	Process No.	
						Min	Max	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	Max	Min		Max	I <sub>C</sub> (mA)					Min
PN2907A	TO-92 (92)	60	60	5	20 50	50	500	10	0.4	1.3	150	8	200	50	100		2	63	
						100	300	150	10										
						100		10	10	1.6	2.6								500
						100		1	10										
						75		0.1	10										
PN3638	TO-92 (92)	25	25	4	35* 15	20	300	2	0.25	1.1	50	20	100	50	170		1	63	
						20	50	1											
						30	10	10	1.0	0.8	2.0								300
PN3638A	TO-92 (92)	25	25	4	25* 15	20	300	2	0.25	1.1	50	10	150	50	170		1	63	
						100	50	1											
						100	10	10	1.0	0.8	2.0								300
						80	1	10											
PN3644	TO-92 (92)	45	45	5	35* 30	20	300	2	0.25	1.0	50	8	200	20	100		4	63	
						100	300	150	10										
						80	240	50	1	0.4	1.3								150
						100		10	10										
						80	1	10	1.0	0.8	2.0								300
						40		0.1	10										
PN3645	TO-92 (92)	60	60	5	35* 50	20	300	2	0.25	1.0	50	8	200	20	100		4	63	
						100	300	150	10										
						80	240	50	1	0.4	1.3								150
						100		10	10										
						80	1	10	1.0	0.8	2.0								300
						40		0.1	10										
PN4142	TO-92 (92)	60	40	5		20	500	10	0.4	1.3	150	8	200	50	100		12	63	
						20	150	1											
						40	120	150	10	1.6	2.6								500
						35		10	10										
						25		1	10										
						20		0.1	10										
PN4143	TO-92 (92)	60	40	5		30	500	10	0.4	1.3	150	8	200	50	100		12	63	
						50	150	1											
						100	300	150	10	1.6	2.6								500
						75		10	10										
						50		1	10										
						35		0.1	10										

**TEST CONDITIONS:**

(1) I<sub>C</sub> = 300 mA, V<sub>CC</sub> = 10V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 30 mA. (2) I<sub>C</sub> = 150 mA, V<sub>CC</sub> = 6V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 15 mA. (3) I<sub>C</sub> = 300 mA, V<sub>CC</sub> = 15V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 30 mA. (4) I<sub>C</sub> = 300 mA, V<sub>CC</sub> = 30V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 30 mA. (5) I<sub>C</sub> = 10 mA, V<sub>CC</sub> = 3V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 1 mA. (6) I<sub>C</sub> = 100 μA, V<sub>CE</sub> = 5V, f = 100 Hz. (7) I<sub>C</sub> = 30 μA, V<sub>CE</sub> = 5V, f = 1 kHz. (8) I<sub>C</sub> = 100 μA, V<sub>CE</sub> = 5V, f = 1 kHz. (9) I<sub>C</sub> = 250 μA, V<sub>CE</sub> = 5V, f = 1 kHz. (10) I<sub>C</sub> = 10 μA, V<sub>CE</sub> = 5V, f = 1 kHz. (11) I<sub>C</sub> = 50 mA, V<sub>CC</sub> = 30V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 5 mA. (12) I<sub>C</sub> = 150 mA, V<sub>CC</sub> = 30V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 15 mA. (13) I<sub>C</sub> = 50 mA, V<sub>CC</sub> = 10V, I<sub>B</sub><sup>1</sup> = I<sub>B</sub><sup>2</sup> = 5 mA.

2-13

