



GENERAL PURPOSE AMPS AND SWITCHES (Continued)

Type No.	Case Style	VCBO (V) Min	VCEO (V) Min	VEBO (V) Min	ICBO (nA) @ VCB (V) Max	hFE @ IC & VCE (V) Min Max	IC (mA)	VCE(SAT) (V) & VBE(SAT) (V) @ IC (mA) Max Min Max	Cob (pF) Max	fT (MHz) @ IC (mA) Min Max	toff (ns) Max	NF (dB) Max	Test Conditions	Process No.
NS3903	TO-18	60	40	6		15 100 1 30 50 1 50 150 10 1 35 1 1 20 100 μ A 1		0.2 0.65 0.85 10 0.3 0.95 50	4	250 10	225		6	23
NS3904	TO-18	60	40	6		30 100 1 60 50 1 100 300 10 1 70 1 1 40 100 μ A 1		0.2 0.65 0.85 10 0.3 0.95 50	4	300 10	250		6	23
PN3691	TO-92 (92)	35	20	4	50 15	40 160 10 1		0.7 0.9 10	3.5	200 500 10				23
PN3692	TO-92 (92)	35	20	4	50 15	100 400 10 1		0.7 0.9 10	3.5	200 500 10				23
ST3904	TO-92 (92)	60	40	6		40 0.1 1 70 1 1 100 300 10 1 60 50 1 30 100 1		0.2 0.65 0.85 10 0.3 0.95 50	4	300 10		8	7	23
2N2712	TO-92 (94)	18	18	5	500 18	75 225 2 4.5			12	80 300 2				27
2N2714	TO-92 (94)	18	18	5	500 18	75 225 2 4.5		0.3 0.6 1.2 50						27
2N3394	TO-92 (94)	25	25	5	100 18	55 110 2 4.5			10					27
2N3693	TO-92 (92)	Same as MPS3693, see page 1-26 for explanation												27
2N3694	TO-92 (92)	Same as PN3694, see page 1-26 for explanation												27
2N3721	TO-92 (94)	18	18	5	500 18	60 660 2 10 (1 kHz)			12					27
2N3827	TO-92 (94)	60	45	4	100 30	100 400 10 10			3.5	200 800 10				27
2N3858	TO-92 (94)	30	30	4	500 18	60 120 2 4.5			4	90 250 2				27

TEST CONDITIONS:

(1) $I_C = 300 \mu A$, $V_{CE} = 10V$, $f = 1 \text{ kHz}$. (2) $I_C = 150 \text{ mA}$, $V_{CC} = 30V$, $I_B^1 = I_B^2 = 15 \text{ mA}$. (3) $I_C = 100 \mu A$, $V_{CE} = 10V$, $f = 1 \text{ kHz}$. (4) $I_C = 300 \text{ mA}$, $V_{CC} = 25V$, $I_B^1 = I_B^2 = 30 \text{ mA}$. (5) $I_C = 100 \mu A$, $V_{CE} = 4.5V$, $f = 15.7 \text{ kHz}$. (6) $I_C = 10 \text{ mA}$, $V_{CC} = 3V$, $I_B^1 = I_B^2 = 1 \text{ mA}$. (7) $I_C = 100 \mu A$, $V_{CE} = 5V$, $f = 15.7 \text{ kHz}$. (8) $I_C = 250 \mu A$, $V_{CE} = 5V$, $f = 10 \text{ Hz}$ -15.7 kHz. (9) $I_C = 3 \text{ mA}$, $V_{CE} = 10V$, $f = 1 \text{ MHz}$. (10) $I_C = 10 \mu A$, $V_{CE} = 5V$, $f = 15.7 \text{ kHz}$.