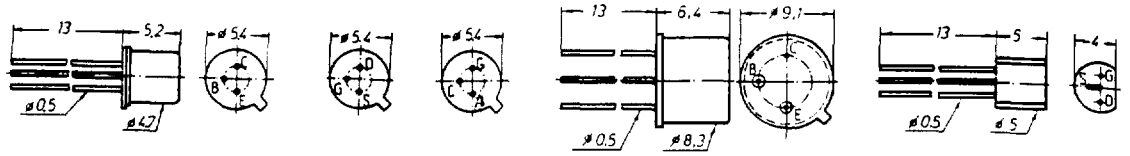
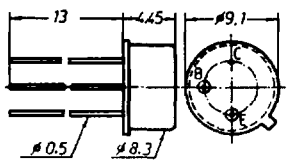
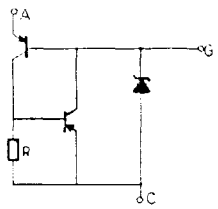
SPECIAL TYPES

BANEASA S.A.



CASES : TO-18 a / d / s TO-39 TO-92d





CASE : TO-100 2N 4983 : EQUIVALENT DIAGRAM

FAST & ULTRAFAST SWITCHING TRANSISTORS

TYPE NPN	TYPE PNP	P_{tot} @ T_A=25°C (mW)	V_{CEO} min. (V)	I_C (mA)	h_{FE} @ I_C min.-max.		V_{CEsat} @ I_C & I_B max. (mV)	I_C (mA)	I_B (mA)	f_T typ. (MHz)	t_{on} max. (ns)	t_{off} t_s * max. (ns)	CASE
BSV 89		360	10	100	40-	10	300	100	10	400	12	18	TO-18a
BSV 90		360	13.5	100	40-120	10	500	100	10	400	12	18	TO-18a
BSV 91		360	15	100	40-270	10	1000	100	10	400	12	18	TO-18a
BSX 12		600	12	1 k	20-	10	700	1000	100	450	15	25	TO-100
BSX 12A		600	15	1 k	30-120	300	700	1000	100	450	15	25	TO-100
BSX 12S		600	12	1 k	22-	300	700	1000	100	450	15	25	TO-100
2N 706		360	15	200	20-	10	600	10	1	200	15	35 *	TO-18a
2N 708		360	15	200	30-120	10	400	10	1	300	40	70	TO-18a
2N 2368		360	15	200	20- 60	10	250	10	1	400	12	15	TO-18a
2N 2368S		360	6	100	30-150	20	400	20	0.66	400	20	15	TO-18a
2N 2369		360	15	200	40-120	10	250	10	1	500	12	18	TO-18a
2N 2369A		360	15	200	40-120	10	250	30	3	500	12	18	TO-18a
2N 2890		800	80	2 k	30- 90	1000	750	2000	200	30	300	1500	TO-39
2N 2891		800	80	2 k	50-150	1000	750	2000	200	30	300	1500	TO-39

FIELD-EFFECT TRANSISTORS

TYPE N-J	TYPE P-J	P_{tot} @ T_A≤ 25°C (W)	±V_{DS} min. (V)	-V_{GSoff} min.-max. (V)	I_{DSS} min.-max. (mA)	-I_{GSS} max. (nA)	Y_{fs} min.-max. (ms)	f @ Y_{fs} min. (MHz)	NF @ f max. (dB)	f (MHz)	C_{og} C_{is}* max. (pF)	C_{rs} max. (pF)	CASE
BF 245		0.2	30	0.5- 8	2 - 25	5	3 -6.5	500			2	1.4	TO-92d
BF 245A		0.2	30	0.5-2.2	2 -6.5	5	3 -6.5	500			2	1.4	TO-92d
BF 245B		0.2	30	1.6-3.8	6 - 15	5	3 -6.5	500			2	1.4	TO-92d
BF 245C		0.2	30	3.2-7.5	12 - 25	5	3 -6.5	500			2	1.4	TO-92d
BF 247		0.2	25	0.5-14	10 -300	5	8 -	450			15 *	5	TO-92d
BF 247A		0.2	25	1.5- 4	30 - 80	5	8 -	450			15 *	5	TO-92d
BF 247B		0.2	25	3 - 7	60 -140	5	8 -	450			15 *	5	TO-92d
BF 247C		0.2	25	5.5-12	110 -250	5	8 -	450			15 *	5	TO-92d
BF 256		0.2	30	0.5-7.5	3 - 18	5	4.5-	700	7.5	800	1.55	1	TO-92d
BF 256A		0.2	30	0.5-7.5	3 - 7	5	4.5-	700	7.5	800	1.55	1	TO-92d
BF 256B		0.2	30	0.5-7.5	6 - 13	5	4.5-	700	7.5	800	1.55	1	TO-92d
BF 256C		0.2	30	0.5-7.5	11 - 18	5	4.5-	700	7.5	800	1.55	1	TO-92d
	2N 5020	0.25	25	0.3- 5	0.3-1.2	1	0.3-		6.5	1	15		TO-18d
	2N 5021	0.25	25	0.3- 5	1 - 10	1	0.3-		6.5	1	15		TO-18d

UNILATERAL SWITCH

TYPE	V_S * min. (V)	V_S * max. (V)	I_S * max. (mA)	I_H max. (mA)	I_R max. (uA)	V_F max. (V)	Th.C.# typ. (%/°C)	t_{on} max. (us)	t_{off} max. (us)	V_0 & min. (V)	C_{og} ^ typ. (pF)	CASE
2N 4983	6	10	0.5	1.5	0.1	1.5	±0.02	1	25	3.5	2.5	TO-18s

Notes : * V_S, I_S = Direct Switch Voltage, Direct Switch Current. ^ f=1MHz
Th.C. = Thermal Coefficient of V_S.
& V_0 = Maximum Pulse Voltage