



Surface Mount Transistors

RF Amplifiers and Oscillators—NPN

Type No.	Case Style	V <sub>CE</sub> * V <sub>CB0</sub> (V) Min	V <sub>CE0</sub> (V) Min	V <sub>EB0</sub> (V) Min	I <sub>CB0</sub> @ V <sub>CB</sub> (nA) Max	h <sub>FE</sub> @ I <sub>c</sub> & V <sub>CE</sub> (V) Min Max	V <sub>CE(SAT)</sub> (V) Max	V <sub>BE(SAT)</sub> (V) Min Max	I <sub>c</sub> (mA) Min Max	C <sub>ob</sub> (pF) Min Max	f <sub>T</sub> (MHz) @ I <sub>c</sub> (mA) Min Max	t <sub>off</sub> (ns) Max	Test Conditions	Process No.
MMBT 5179	TO-236 (49)	20	12	2.5	20 15	25 250 3 1	0.4	1.0 10	1	1	650 1700 2			40
MMBT H10	TO-236 (49)	30	25	3	100 25	60 4 10	0.5	0.95 4	0.35 0.65		650			42
MMBT 918	TO-236 (49)	30	15	3	10 15	20 3 1	0.4	1.0 10	1.7	1.7	600 1500 4	6	60	43
MMBT 3563	TO-236 (49)	30	15	2	50 15	20 200 8 10			1.7	1.7	600 1500 4			43
MMBT 5130	TO-236 (49)	30	12	1	50 10	15 250 8 10	0.6	1.0 10	1.7	1.7	450 8			43
MMBT H30	TO-236 (49)	20	20	3	50 10	20 200 4 5	0.3	0.96 10	0.5	0.5	300 800 4	6	45	44
MMBT 6543	TO-236 (49)	35	20	3	100 25	20 2 10	0.35	10			750 4			47
MMBT H11	TO-236 (49)	30	25	3	100 25	60 4 10	0.5	4	0.6 0.9	0.9	650 4			47
MMBT H24	TO-236 (49)	40	30	4	50 15	30 8 10			0.36	0.36	400 8			47
MMBT H34	TO-236 (49)	45	45	4	50 30	15 20 2 2	0.5	20	0.32	0.32	500 15			47
MMBT H20	TO-236 (49)	40	30	4	50 15	25 4 10			0.65	0.65	400 4			49
MMBT H81	TO-236 (49)													

Surface Mount Devices