

TO-220 Power Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (T _a =25°C, Unless Otherwise Specified)																		
Type No.	V _{CEO} (V) Min	V _{CE0} (V) Min	V _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CEO} (μA) Max	V _{CE} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} Min	β Max	I _C & (A)	V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Min	V _{BE(SAT)} (V) Max	I _C (A)	C _{ob} (pF) Max	Typ	f _t (MHz) Min	Typ	β Max	I _C (mA)	
BD243B	80	80	5	65	6			400	80	30 15		0.3 3	4 4	1.5		6					3			500
BD243C	100	100	5	65	6			400	100	30 15		0.3 3	4 4	1.5		6					3			500
BD949	60	60	5	40	5	50	60			40 20		0.5 2	4 4	1		2					3			500
BD951	80	80	5	40	5	50	80			40 20		0.5 2	4 4	1		2					3			500
BD953	100	100	5	40	5	50	100			40 20		0.5 2	4 4	1		2					3			500
BD955	120	120	5	40	5	50	120			40 20		0.5 2	4 4	1		2					3			500
BU406	400	200	6	60	7			100	250					1		1.2	5	80			10			500
BU407	330	150	6	60	7			100	200					1		1.3	5	80			10			500
BU505	##1500	700	5	10	2.5			1000	1500	2		2	5	5		1.5	2		65		7.5			100
BU508AT	1500	700		56	8			1000	1500					1		1.3	0.01		125		7			100
BUL45	##700	400	9	100	5			10	700	16 7 7	40	1 2 0.01	5 1 5	0.25 0.4		1.2 1.3	1 2	75	45		12			500
BUT11	##850	400	9	100	5			1000	850					1.5		1.3	3							
BUV46	##850	400	7	70	5			300	850					1.5 5		1.3	2.5 3.5							
CD3968	500	400	5	40	1			1000	500	30 10	150	0.3 1	10 10	1		1					10			200
CSD1025	350	250	7	35	6	100	300			2500 1500		2 4	3 3	2		4			35					
MJE13005	700	#400	9	75	4			\$1000	700	10 8	60 40	1 2	5 5	0.5 0.6 1		1.2 1.6	1 2 4				4			500
MJE13007	700	#400	9	80	8			\$1000	700	8 5	60 30	2 5	5 5	1 2 3		1.2 1.6	2 5 8		110		4			500
MJE3055T	70	60	5	75	10	1000	70			20 5	100	4 10	4 4	1.1 8		4 10					2			500
SJE1349	73	63	7	65	6	300	63	300	73	43		4	4	1.07 3		4 10					20			500
TIP110	60	60	5	50	2	1000	30			1000 500		1 2	4 4	2.5		2								
TIP111	80	80	5	50	2	1000	40			1000 500		1 2	4 4	2.5		2								
TIP112	100	100	5	50	2	1000	50			1000 500		1 2	4 4	2.5		2								

NOTE : V_{CES}
\$ NOTE : I_{CEV}
NOTE : V_{CEV}