

TO-220 Power Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=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 _{CB} (V) @ (V)	I _{CES} (μA) Max	V _{CE} (V) @ (V)	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	4	1.5		6				3			500
BD243C	100	100	5	65	6			400	100	30	15	0.3	4	1.5		6				3			500
BD949	60	60	5	40	5	50	60			40	20	0.5	4	1		2				3			500
BD951	80	80	5	40	5	50	80			40	20	0.5	4	1		2				3			500
BD953	100	100	5	40	5	50	100			40	20	0.5	4	1		2				3			500
BD955	120	120	5	40	5	50	120			40	20	0.5	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	40	1	0.25		1.2	1	75	45	12			500
										7			0.01	0.4		1.3	2						
BUT11	##850	400	9	100	5			1000	850					1.5		1.3	3						
BUV46	##850	400	7	70	5			300	850					1.5		1.3	2.5						
														5		3.5							
CD3968	500	400	5	40	1			1000	500	30	10	150	0.3	10	1		1			10			200
										10		1	10										
CSD1025	350	250	7	35	6	100	300			2500	1500	2	3	2		4			35				
										4		3											
MJE13005	700	##400	9	75	4			\$1000	700	10	8	60	1	0.5		1.2	1			4			500
										8		40	2	0.6		1.6	2						
													5	1		4							
MJE13007	700	##400	9	80	8			\$1000	700	8	5	60	2	1		1.2	2		110	4			500
										5		30	5	2		1.6	5						
													5	3		8							
MJE3055T	70	60	5	75	10	1000	70			20	5	100	4	1.1		4				2			500
										5		10	4	8		10							
SJE1349	73	63	7	65	6	300	63	300	73	43		4	4	1.07		4				20			500
														3		10							
TIP110	60	60	5	50	2	1000	30			1000	500	1	4	2.5		2							
												2	4										
TIP111	80	80	5	50	2	1000	40			1000	500	1	4	2.5		2							
												2	4										
TIP112	100	100	5	50	2	1000	50			1000	500	1	4	2.5		2							
												2	4										

NOTE : V_{CEs}
 \$ NOTE : I_{CEV}
 # NOTE : V_{CEV}