

TO-39 Metal-Can Package Transistors (NPN)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																
Type No.	V _{CSO} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} Min	β Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C (mA) @ V _{CE}	C _{ob} (pF) Min Max Typ	f _T (MHz) Min Typ Max	I _C (mA) @ f _T	t _{off} (ns) Max	NF (dB) Max	Freq (MHz) @ NF
2N3678	75	55	6	0.8	0.8		0.01	60			25 20 40 35 25 20	500 150 150 10 1 0.1	10 1 10 10 10 10		0.4 1	.6 2	1.2 500				250		
2N3742	300	300	7	1	0.05		0.2	200			10 15 20 20	3 10 30 50	10 10 10 20		0.75 1	1 1.2	10 30	6	30	10			
2N4237	50	40	6	1	1		0.01	50			15 30 30 30	1000 500 250 50	1 1 1 1		0.6 0.3	1.5	1000 500	100					
2N4926	200	200	7	1	0.05		0.1	100			10 15 20 20	3 10 30 50	10 10 10 20		1 2	1.2 1.5	10 30 50		30	300	10		
2N5320	100	75	7	10	2				*100	100	30 10	130 1000	500 2	4	0.5	1.1	500				800		
2N5321	75	50	5	10	2				*100	75	40	250	500	4	0.8	1.4	500				800		
2N5681	100	100	4	1	1		1	100	* 1	100	5 40	1000 150	250 2	2	0.6 1 2		250 500 1	50	30	100			
2N5682	120	120	4	1	1		1	120	* 1	120	5 40 2	1000 150	250 2 1	2	0.6 1		250 500	50	30	100			
2N656	60	60	8				10	30			30	90	200	10	4		200						
2N657	100	100	8	1	0.5		10	30			30	90	200	10	4		200						
2N696	60	40	5	0.8	0.5		1	30			20	60	150	10	1.5	1.3	150	35					
2N697	60	40	5	0.6	0.5		1	30			40	120	150	10	1.5	1.3	150	35					
2N699	120	80	5	0.8	0.5		2	60			40	120	150	10	5	1.3	150	20	50	50			
BC140	80	40	7	0.8	1				0.1	60	40	400	100	1	1		1000	25	50	50	850		
BC140-10	80	40	7	0.8	1				0.1	60	63	160	100	1	1		1000	25	50	50	850		
BC140-16	80	40	7	0.8	1				0.1	60	100	250	100	1	1		1000	25	50	50	850		
BC140-6	80	40	7	0.8	1				0.1	60	40	100	100	1	1		1000	25	50 300	50	850		
BC141	100	60	7	0.8	1				0.1	60	40	400	100	1	1		1000	25	50	50	850		
BC141-10	100	60	7	0.8	1				0.1	60	63	160	100	1	1		1000	25	50	50	850		
BC141-16	100	60	7	0.8	1				0.1	60	100	250	100	1	1		1000	25	50	50	850		
BC141-6	100	60	7	0.8	1				0.1	60	40	100	100	1	1		1000	25	50	50	850		
BC300	120	80	7	0.85	0.5		0.02	120			40	240	150	10	0.5		150		100	400	50		
BC300-4	120	80	7	0.85	0.5		0.02	120			40	80	150	10	0.5		150		100	400	50		
BC300-5	120	80	7	0.85	0.5		0.02	120			70	140	150	10	0.5		150		100	400	50		

* NOTE : ICES