

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 _{EBO} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V) @ I _C	I _{CE(S)} (μA) Max	V _{CE} (V) @ I _C	h _{FE} Min	h _{FE} 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) Max	t _(off) (ns) Max	NF (dB) Max	Freq (MHz) Max	
2N3678	75	55	6	0.8	0.8		0.01	60			25	500	10		0.4	.6	1.2	150				250		
											20	150	1		1		2	500						
											40	120	150	10										
											35		10	10										
											25		1	10										
											20		0.1	10										
2N3742	300	300	7	1	0.05		0.2	200			10		3	10	0.75		1	10	6		30		10	
											15		10	10	1		1.2	30						
											20	200	30	10										
											20		50	20										
2N4237	50	40	6	1	1		0.01	50			15		1000	1	0.6		1.5	1000	100					
											30		500	1	0.3		500							
											30	150	250	1										
											30		50	1										
2N4926	200	200	7	1	0.05		0.1	100			10		3	10	1		1.2	10			30		300	10
											15		10	10	2			30						
											20	200	30	10			1.5	50						
											20		50	20										
2N5320	100	75	7	10	2		*100	100			30	130	500	4	0.5		1.1	500						800
											10		1000	2										
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		1000	2	0.6		250	50			30		100	
											40	150	250	2	1		500							
											2			2	2		1							
2N5682	120	120	4	1	1		1	120	* 1	120	5		1000	2	0.6		250	50			30		100	
											40	150	250	2	1		500							
											2			1										
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