

TO-39 Metal-Can Package Transistors (NPN)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																			
Type No.	V _{CSO} (V)	V _{CEO} (V)	V _{EBO} (V)	P _D (W)	I _C (A)	I _{CM} (A)	I _{CBO} (μA)	V _{CB} (V)	I _{CE} (μA)	V _{CE} (V)	h _{FE}	β	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _t (MHz)	β	I _C (mA)	t _(off) (ns)	NF (dB)	Freq (MHz)		
	Min	Min	Min	@Tc=25°C			Max	@ (V)	Max	@ (V)	Min	Max	Max	Max	Max	Max	Max	Min	Max	Typ	Min	Typ	Max	Max	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			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