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# TO-92 Plastic Package Transistors (NPN)

Maximum Ratings					Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																					
Type No.	V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EBO</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CB0</sub> (μA)	V <sub>CE0</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE0</sub> (V)	h <sub>FE</sub>	I <sub>C</sub> & V <sub>CE</sub>	V <sub>CE(SAT)</sub> (V)	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>t</sub> (MHz)	I <sub>C</sub> (mA)	t <sub>on</sub> (ns)	N <sub>F</sub> (dB)	Freq (MHz)	C <sub>in</sub> (pF)	CDIL Case Style				
	Min	Min	Min	@ Tc=25°C	Max	Max	Max	Min	Max	Min	Max	Max	Max	Max	Typ	Max	Min	Typ	Max	Max	Max	Max				
2SC3199Y	50	50	5	0.4	0.15	0.1	50			120	240	2	6	0.25		100	2	3.5	80		1		10	TO-92-1		
2SC3355	20	12	3	0.6		0.1	15			50	300	20	10				1		6500	20		3	1000	TO-92		
2SC383TM	50	45	4	0.3	0.05	0.1	50			20	100	12.5	12.5	0.2		1.5	15	2	300		13			TO-92-1		
2SC388ATM	30	25	4	0.3	0.05	0.1	30			20	200	12.5	12.5	0.2		1.5	15	2	300		13			TO-92-1		
2SC458	30	30	5	0.2	0.1	0.5	18			100	500	2	12	0.2		10		3.5				10	0.001	TO-92-1		
2SC458B	30	30	5	0.2	0.1	0.5	18			100	200	2	12	0.2		10		3.5	230		2		10	TO-92-1		
2SC458C	30	30	5	0.2	0.1	0.5	18			160	320	2	12	0.2		10		3.5	230		2		10	TO-92-1		
2SC458D	30	30	5	0.2	0.1	0.5	18			250	500	2	12	0.2		10		3.5	230		2		10	TO-92-1		
2SC460	30	30	5	0.2	0.1	0.5	18			35	200	2	12	1.1		10		3.5	230		2		5	1	TO-92-1	
2SC460A	30	30	5	0.2	0.1	0.5	18			35	70	2	12	1.1		10		3.5	230		2		5	1	TO-92-1	
2SC460B	30	30	5	0.2	0.1	0.5	18			60	120	2	12	1.1		10		3.5	230		2		5	1	TO-92-1	
2SC460C	30	30	5	0.2	0.1	0.5	18			100	200	2	12	1.1		10		3.5	230		2		5	1	TO-92-1	
2SC535	30	20	4	0.1	0.02					35	200	1	6	0.25		20		1.2	450	940		5		5.5	100	TO-92-1
2SC536	40	30	5	0.4	0.1	0.1	35			60	960	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536D	40	30	5	0.4	0.1	0.1	35			60	120	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536E	40	30	5	0.4	0.1	0.1	35			100	200	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536F	40	30	5	0.4	0.1	0.1	35			160	320	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536G	40	30	5	0.4	0.1	0.1	35			280	560	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536H	40	30	5	0.4	0.1	0.1	35			480	960	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC536K	55	50	5	0.4	0.1	0.1	35			60	960	1	6	0.5		50		3.5	100	100		1			TO-92-1	
2SC752GTM	40	15	5	0.4	0.2	0.1	40			70	240	10	1	0.3		1.3	20	6	200	400		10			TO-92-1	
2SC752GTM0	40	15	5	0.4	0.2	0.1	40			70	140	10	1	0.3		1	20	4	6	200	400		10			TO-92-1
2SC752GTMV	40	15	5	0.4	0.2	0.1	40			120	240	10	1	0.3		1	20	6	4	200	400		10			TO-92-1
2SC763	25	12	3		0.02	0.5	12			20	300	1	6					1.5	400		1				TO-92	
2SC9022	50	40	5	0.3	0.1	0.5	30			82	820	1	6	0.4		50		2	3.5	180		2			TO-92-1	
2SC945	60	50	5	0.25	0.1	0.1	60			50		0.1	6	0.3		1	100	3	4	150	250	450	10		15	TO-92-1
2SC945K	60	50	5	0.25	0.1	0.1	60			50		0.1	6	0.3		1	100	3	4	150	250	450	10		15	TO-92-1
2SC945P	60	50	5	0.25	0.1	0.1	60			50		0.1	6	0.3		1	100	3	4	250	150	450	10		15	TO-92-1
2SC945Q	60	50	5	0.25	0.1	0.1	60			50		0.1	6	0.3		1	100	3	4	150	250	450	10		15	TO-92-1
2SC945R	60	50	5	0.25	0.1	0.1	60			50		0.1	6	0.3		1	100	3	4	150	250	450	10		15	TO-92-1