

# TO-92 Plastic Package Transistors (NPN)

Maximum Ratings					Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																				
Type No.	V <sub>CEO</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</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)	t <sub>on</sub> (ns)	N <sub>F</sub> (dB)	CDIL Case Style						
	Min	Min	Min	@ Tc=25°C	Max	Max	@ (V)	Max	@ (V)	Min	Max	Max	Min	Max	Typ	Max	Min	Max	Max	Max					
2N3417	50	50	5	0.625	0.1	0.1	50			180	540	2	4.5	0.3	.6	1.3	50			TO-92-1					
2N3564	30	15	4	0.625	0.05	0.05	15			20	200	15	10	0.3		0.97	20	3.5	400	1200	15	TO-92			
2N3605		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	45	TO-92-1		
2N3606		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	60	TO-92-1		
2N3607		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	70	TO-92-1		
2N3662	18	12	3	0.625	0.05	0.5	15			20		8	10			1.7	700		2100	5		6.5	60	TO-92-1	
2N3663	30	12	3	0.625	0.05	0.5	15			20		8	10			1.7	700		2100	5		6.5	60	TO-92-1	
2N3693	45	45	4	0.625	0.5	0.05	35			40	160	10	10			3.5	200			10		4		TO-92	
2N3694	45	45	4	0.625	0.5	0.05	35			100	400	10	10			3.5	200			10		4		TO-92	
2N3704	50	30	5	0.625	0.6	0.1	20			100	300	50	2	0.6			100	12	100		50			TO-92-1	
2N3705	50	30	5	0.625	0.6	0.1	20			50	150	50	2	0.8			100	12	100		50			TO-92-1	
2N3706	40	20	5	0.625	0.6	0.1	20			30	600	50	2	1			100	12	100		50			TO-92-1	
2N3707	30	30	6	0.625	0.25	0.1	20			100	400	0.1	5	1			10					5		TO-92-1	
2N3708	30	30	6	0.625	0.25	0.1	20			45	660	1	5	1			10							TO-92-1	
2N3709		30		0.625	0.25	0.1	20			45	165	1	5	1			10							TO-92-1	
2N3710	30	30	6	0.625	0.25	0.1	20			90	330	1	5	1			10							TO-92-1	
2N3711	30	30	6	0.625	0.25	0.1	20			180	660	1	5	1			10							TO-92-1	
#2N3721	18	18	5	0.625	0.1	0.5	18			60	660	2	10				12							TO-92-1	
2N3794	40	20	5	0.625	0.6	0.5	15			100	100	10	10	0.4			10	10	100		600	10		TO-92-1	
										100	600	10	10												
										35		1	10												
2N3825	30	15	4	0.625	0.1	0.1	15			20		2	10	0.25			2	3.5	200		800	2	5.5	1	TO-92-1
2N3827	60	45	4	0.625	0.5	0.1	30			100	400	10	10				3.5	200		800	10			TO-92-1	
2N3858	30	30	4	0.625	0.1	0.5	18			60	120	2	4.5				4	90		250	2			TO-92-1	
2N3858A	60	60	6	0.625	0.05	0.5	18			60	120	10	1				4	90		250	2			TO-92-1	
										45		1	1												
2N3859	30	30	4	0.625	0.1	0.5	18			100	200	2	4.5				4	90		250	2			TO-92-1	
2N3859A	60	60	6	0.625	0.05	0.5	18			100	200	10	1				4	90		250	2			TO-92-1	
										75	200	1	1												
2N3860	30	30	4	0.625	0.1	0.5	18			150	300	2	4.5				4	90		250	2			TO-92-1	
2N3877	70	70	4	0.625	0.05	0.5	70			20	250	2	4.5			0.5	0.9	10						TO-92-1	
2N3877A	85	85	4	0.625	0.05	0.5	70			20	250	2	4.5			0.5	0.9	10						TO-92-1	
2N3900	18	18	5	0.625	0.1	0.1	18			250	500	2	4.5					12						TO-92-1	
2N3900A	18	18	5	0.625	0.05	0.1	18			250	500	2	4.5					12				5		TO-92-1	
2N3901	18	18	5	0.625	0.05	0.1	15			350	700	2	4.5									5		TO-92-1	

# NOTE : HFE values are hfe(min) & hfe (max) at 1.00 kHz