

# 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>CEO</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CB0</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>i</sub> (MHz)	t <sub>off</sub> (ns)	N <sub>F</sub> (dB)	CDIL Case Style			
	Min	Min	Min	@Tc=25°C	Max	Max	@ (V)	Max	@ (V)	Min	Max	Max	Max	Max	Typ	Typ	Max	Max	Max			
CD9018G	20	12	2	0.625	0.03	0.05	15			72	108	1	5	0.6	10	1.7	600	5	5	60	TO-92	
CD9018H	20	12	2	0.625	0.03	0.05	15			97	146	1	5	0.6	10	1.7	600	5	5	60	TO-92	
CD9018I	20	12	2	0.625	0.03	0.05	15			132	198	1	5	0.6	10	1.7	600	5	5	60	TO-92	
CD9018J	20	12	2	0.625	0.03	0.05	15			182	273	1	5	0.6	10	1.7	600	5	5	60	TO-92	
CD965	40	20	7		5	0.1	10			180	600	500	2	1.35	3	50	150	50			TO-92-1	
CD965P	40	20	7		5	0.1	10			180	270	500	2	1.35	3	50	150	50			TO-92-1	
CD965Q	40	20	7		5	0.1	10			230	380	500	2	1.35	3	50	150	50			TO-92-1	
CD965R	40	20	7		5	0.1	10			340	600	500	2	1.35	3	50	150	50			TO-92-1	
CD965S	40	20	7		5	0.1	10			560	800	500	2	1.35	3	50	150	50			TO-92-1	
CDN368	25	20	5	0.625	1	0.05	25			50		5	10	0.2	1000						TO-92	
CIL187	25	15	6	0.625	0.7	10	25			70		5	10	0.5	1000						TO-92-4	
CIL368	25	20	5	0.625	1	10	25			50		5	10	0.5	1000	27	60	10			TO-92	
CIL455	140	160	5	1	1	0.1	140			100	300	150	10	0.7	150	15	100	50			TO-92	
CN1	12	12	5	0.4	0.15	1	10			50	700	2	5	0.25	10						TO-92-4	
CO39N	300	300	5	0.8	0.5	0.5	240	0.2	100	30	200	1	1	0.2	0.9	25					TO-92-1	
CSC1008	80	60	6	0.8	0.7	0.1	60			30	450	25	1	3								TO-92
CSC1008G	80	60	6	0.8	0.7	0.1	60			40	400	50	2	0.4	1.1	500	30	50			TO-92	
CSC1008O	80	60	6	0.8	0.7	0.1	60			200	400	50	2	0.4	1.1	500	30	50			TO-92	
CSC1008R	80	60	6	0.8	0.7	0.1	60			70	140	50	2	0.4	1.1	500	30	50			TO-92	
CSC1008Y	80	60	6	0.8	0.7	0.1	60			40	80	50	2	0.4	1.1	500	30	50			TO-92	
CSC1187	30	20	4	0.25	0.03	0.1	20			120	240	50	2	0.4	1.1	500	30	50			TO-92	
CSC1187O	30	20	4	0.25	0.03	0.1	20			40	240	2	10				400	3			TO-92	
CSC1187R	30	20	4	0.25	0.03	0.1	20			70	140	2	10				400	3			TO-92	
CSC1187Y	30	20	4	0.25	0.03	0.1	20			40	80	2	10				400	3			TO-92	
CSC1674	30	20	4	0.25	0.02	0.1	30			120	240	2	10				400	3			TO-92	
CSC1674O	30	20	4	0.25	0.02	0.1	30			40	240	1	6	0.5	10		400	600	1		TO-92	
CSC1674R	30	20	4	0.25	0.02	0.1	30			70	140	1	6	0.5	10		400	600	1		TO-92	
CSC1674R	30	20	4	0.25	0.02	0.1	30			40	80	1	6	0.5	10		400	600	1		TO-92	

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