

CDIL TO-237 PLASTIC PACKAGE TRANSISTORS (PNP)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)															
Type No.	V _{CB0} (V)	V _{CEO} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CM} (A)	I _{CB0} (μA)	V _{CB} (V)	h _{FE} @		I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V)		I _C @ (mA)	C _{ob} (pF)	f _t (MHz)		I _C @ (mA)	t(off) (ns)	CDIL Case Style	
	Min	Min	Min	@ Tc=25°C			Max		Min	Max			Max	Min	Max	Typ	Max	Min	Typ	Max		Max
2N6708	60	45	5	0.75	1.5		0.1	60	40	250	50	2	1	0.5	1000		50		50			TO-237-1
2N6709	80	60	5	0.75	1.5		0.1	80	40	250	50	2	1	0.5	1000		50		50			TO-237-1
2N6710	100	80	5	0.75	1.5		0.1	100	40	250	50	2	1	0.5	1000		50		50			TO-237-1
2N6726	40	30	5	0.75	2		0.1	40	55	100	10	1	0.5		1000		50		50			TO-237-2
2N6727	50	40	5	0.75	1		0.1	50	55	100	10	1	0.5		1000		50	500	50			TO-237-2
2N6728	60	60	5	0.75	1		0.1	40	80	250	50	1	0.35		250		50		50			TO-237-2
2N6729	80	80	5	0.75	1		0.1	60	80	250	50	1	0.35		250		50		50			TO-237-2
2N6730	100	100	5	0.75	1		0.1	80	80	250	50	1	0.35		250		50		50			TO-237-2
2N6732	100	80	5	0.75	1		0.1	80	100	300	10	2	0.35		350		50		50			TO-237-2
CIL916	160	160	5	0.75	0.05		0.1	160	50	400	1	10	0.6	1	20	3	3.5	50	80	10		TO-237-1
CIL916KA	160	160	5	0.75	0.05		0.1	160	50	400	1	10	0.6	1	20	3	0.5	50	80	10		TO-237-1
CIL916LA	160	160	5	0.75	0.05		0.1	160	50	270	1	10	0.6	1	20	3	3.5	50	80	10		TO-237-1
CIL916MA	160	160	5	0.75	0.05		0.1	160	50	180	1	10	0.6	1	20	3	3.5	50	80	10		TO-237-1
CIL928A	30	30	5	1	1.5		0.1	30	100	320	500	2	2		1500	3	30		120			TO-237-1
CIL928AO	30	30	5	1	1.5		0.1	30	100	200	500	2	2		1500	3	30		120			TO-237-1
CIL928AY	30	30	5	1	1.5		0.1	30	100	300	500	2	2		1500	3	30		120			TO-237-1
CIL1020	50	50	5	0.75	1.5	2	1	50	70	240	500	2	0.5		1000	40		100		500		TO-237-1
CIL1020O	50	50	5	0.75	1.5	2	1	50	70	140	500	2	0.5		1000	40		100		500		TO-237-1
CIL1020Y	50	50	5	0.75	1.5	2	1	50	120	240	500	2	0.5		1000	40		100		500		TO-237-1
CP100	60	50	5	0.75	1		0.05	40	40	300	150	10	0.6		150				80			TO-237
CP100A	60	50	5	0.75	1		0.05	40	40	120	150	10	0.6		150				80			TO-237
CP100B	60	50	5	0.75	1		0.05	40	100	300	150	10	0.6		150				80			TO-237
CSA931	80	60	6	1	0.7		0.1	60	40	240	50	2	0.7	1.2	500			50	100	50		TO-237-1
CSA931O	80	60	6	1	0.7		0.1	60	70	140	50	2	0.7	1.2	500			50	100	50		TO-237-1
CSA931R	80	60	6	1	0.7		0.1	60	40	80	50	2	0.7	1.2	500			50	100	50		TO-237-1
CSA931Y	80	60	6	1	0.7		0.1	60	120	240	50	2	0.7	1.2	500			50	100	50		TO-237-1

TO-237 PLASTIC PACKAGE TRANSISTORS (PNP) CDIL

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Type No.	V _{CB0} (V)	V _{CEO} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CM} (A)	I _{CB0} (μA)	V _{CB} (V)	h _{FE}	I _C & V _{CE} (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _T (MHz)	I _C (mA)	I _(off) (mA)	CDIL (ns)	Case Style			
	Min	Min	Min	@Tc=25°C			Max	Min	Min	Max	Max	Max	Min	Max	Typ	Max	Min	Typ	Max	Max			
CSA1013	160	160	6	0.9	1		1	150	60	320	200	5	1.5		500	35	15	50	200		TO-237-1		
CSA10130	160	160	6	0.9	1		1	150	100	200	200	5	1.5		500	35	15	50	200		TO-237-1		
CSA1013R	160	160	6	0.9	1		1	150	60	120	200	5	1.5		500	35	15	50	200		TO-237-1		
CSA1013Y	160	160	6	0.9	1		1	150	160	320	200	5	1.5		500	35	15	50	200		TO-237-1		
CTN369		20	5	0.75	0.5		10	25	50		5	10	0.5		1000	45		60	10		TO-237		
									85	375	500	1											
									60		1000	1											
CTN491	200	200	6	0.75	0.5		0.1	160	25		1	10	2		20		50		10		TO-237		
									40		10	10											
CTN492	250	250	6	0.75	0.5		0.1	200	25		1	10	2		20		50		10		TO-237		
									40		10	10											
CTN493	300	300	6	0.75	0.5		0.1	200	25		1	10	2		20		50		10		TO-237		
									40		10	10											
CTN636	45	45	5	1	1	1.5	10	30	25		5	2	0.5	1		9		130	1000		TO-237		
									40	250	150	2											
									25		500	2											
CTN640	100	80	5	1	1	1.5	10	30	25		5	2	0.5	1		9		130	10		TO-237		
									40	160	150	2											
									25		500	2											
TN369		20	5	2.5			10	25	50		5	10	0.5		1000	45		60	10		TO-237-2		
									85	375	500	1											
									60		1000	1											
TN636	45	45	5	0.75	1		0.1	30	40	250	150	2	0.5		500		130				TO-237-2		
									25		500	2											
TN638	60	60	5	0.75	1		0.1	30	40	160	150	2	0.5		500		130				TO-237-2		
									25		500	2											
TN640	100	80	5	0.75	1		0.1	30	50	160	150	2	0.5		500		130				TO-237-2		
									25		500	2											
TN2904A	60	60	5	0.75	0.6		0.01	50	40		0.1	10	0.4		1.3	150	8	200		50	175	TO-237-2	
									40		1	10	1.6		2.6	500							
									40		10	10											
									40	120	150	10											
									40		500	10											
TN2905	60	40	5	0.75	0.6		0.02	50	30		500	10	0.4		1.3	150	8	200		50	200	TO-237-2	
									100	300	150	10	1.6		2.6	500							
									75		10	10											
									50		1	10											
									35		0.1	10											
TN2905A	60	60	5	0.75	0.6	0.6	0.01	50	50		500	10	0.4		1.3	150	8	200		50	200	TO-237-2	
									100	300	150	10	1.6		2.6	500							
									100		10	10											
									100		1	10											
									75		0.1	10											
TN4030	60	60	5	0.75	0.5		0.05	50	30		0.1	5	0.5		500	20	100		400	50		TO-237-2	
									40	120	100	5	0.15		0.9	150							
									25		500	5	1		1000								
									15		1000	5											
TN4033	80	80	5	0.75	0.5		0.05	60	75		0.1	5	0.15		0.9	150	20	150		500	50		TO-237-2
									100	300	100	5	0.5		500								
									70		500	5											
									25		1000	5											
TN4036	90	65	7	0.75	0.5		0.02	60	20		0.1	10	0.65		1.4	150	30	60		50		TO-237-2	
									40	140	150	10											
									20		500	10											

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Type No.	V _{CB0} (V)	V _{CE0} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CM} (A)	I _{CB0} (μA)	V _{CB} (V)	h _{FE}	β	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _T (MHz)	I _C (off) (mA)	CDIL (ns)	Case Style		
	Min	Min	Min	@T _C =25°C	(A)	(A)	Max	(V)	Min	Max	(mA)	(V)	Max	Min	Max	Typ	Max	Min	Typ	Max		
TN4037	60	40	7	0.75	0.5		0.25	60	15	1	10	1.4			150	30	60	200	50		TO-237-2	
TN4234	40	40	7	0.75	1		100	40	40		100	1	0.6		1.5	1000	100	3		100		TO-237-2
									30	150	250	1										
									20		500	1										
									10		1000	1										
TN4235	60	60	7	0.75	1		100	60	40		100	1	0.6		1.5	1000	100	3		100		TO-237-2
									30	150	250	1										
									20		500	1										
									10		1000	1										
TN4236	80	80	7	0.75	1		100	80	40		100	1	0.6		1.5	1000	100	3		100		TO-237-2
									30	150	250	1										
									20		500	1										
									10		1000	1										
TN4314	90	65		0.75	0.5		0.25	60	15		1	10	1.4				60			50		TO-237-2
									50	250	150	10										