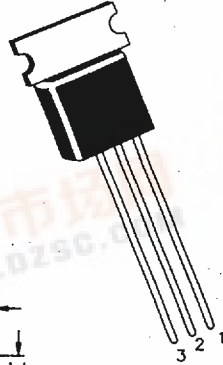
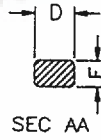
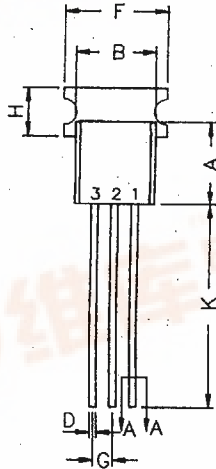


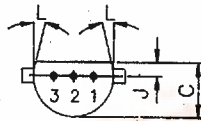
CDIL

TO-237



DIM	MIN	MAX
A	4,32	5,33
B	4,45	5,20
C	3,18	4,19
D	0,41	0,55
E	0,35	0,50
F	—	0,55
G	1,14	1,40
H	—	2,54
K	12,70	—
L	5 DEG	

ALL DIMENSIONS ARE IN M.M.



PIN CONFIGURATION AVAILABLE IN TO-237

CDIL Code Style	PIN 1	PIN 2	PIN 3
TO-237	Emitter	Base	Collector
TO-237-1	Base	Collector	Emitter
TO-237-2	Collector	Base	Emitter

TO-237 Plastic Package Transistors (NPN)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)													
Type No.	V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CB0} (μA) Max	V _{CB} (V)	h _{FE} @		I _C & V _{CE} (mA) (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V)	I _C @ (mA)	C _{ob} (pF)	f _t (MHz)	t _(off) (ns)	CDIL Case Style			
									Min	Max		Max	Min	Max	Typ	Min	Max			
2N6705	60	45	5	0.75	1.5		0.1	60	40	250	50 250	0.5 1	500 1000		50	400	200	TO-237-1		
2N6706	80	60	5	0.75	1.5		0.1	80	40	250	50 250	0.5 1	500 1000		50	400	200	TO-237-1		
2N6707	100	80	5	0.75	1.5		0.1	100	40	250	50 250	0.5 1	500 1000		50	400	200	TO-237-1		
2N6711	160	160	7	0.75	0.5		0.05	100	15	200	1 10 10 30				40	200	10	TO-237-1		
2N6712	250	250	7	0.75	0.5		0.05	200	15	200	1 10 10 30				40	200	10	TO-237-1		
2N6713	300	300	7	0.75	0.5		0.05	250	15	200	1 10 10 30				40	200	10	TO-237-1		
2N6714	40	30	5	0.75	1		0.1	40	55	250	10 100 1000	0.5	100		50	500	50	TO-237-2		

TO-237 Plastic Package Transistors (NPN)

CDIL

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)														
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CE} (V)	h _{FE} @ Min Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V)	I _C @ (mA)	C _{ob} (pF) Typ Max	f _t (MHz) Min Typ Max	I _C (mA)	t(off) (ns) Max	CDIL Case Style			
2N6715	50	40	5	0.75	1.5		0.1	50	55 10 60 100 50 250 1000	1		0.5	1000		50	400	50	TO-237-2			
2N6716	60	60	5	0.75	1.5		0.1	40	80 50 50 250 250 20 500	1		0.35	250		50	500	50	TO-237-2			
2N6717	80	80	5	0.75	1		0.1	60	80 50 50 250 250 20 500	1		0.35	250		50	500	200	TO-237-2			
2N6718	100	100	5	0.75	1		0.1	80	80 50 50 250 250 20 500	1		0.35	350		50	500	200	TO-237-2			
2N6719	300	300	7	0.75	0.5		0.1	200	25 1 40 10 40 200 30	10					30	300	15	TO-237-2			
2N6731	100	80	5	0.75	1		0.1	80	100 10 100 300 350	2		0.35	350		50	500	200	TO-237-2			
2N6733	200	200	6	0.75	0.5		0.1	160	25 1 40 200 10	10		2	20		50	200	10	TO-237-2			
2N6734	250	250	6	0.75	0.5		0.1	200	25 1 40 200 10	10		2			50	200	10	TO-237-2			
2N6735	300	300	6	0.75	0.5		0.1	260	25 1 40 200 10	10					50	200	10	TO-237-2			
CIL857	200	200	6	0.9	0.5		0.05	150	70 1 70 400 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL857GR	200	200	6	0.9	0.5		0.05	150	70 1 200 400 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL857O	200	200	6	0.9	0.5		0.05	150	70 1 70 140 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL857Y	200	200	6	0.9	0.5		0.05	150	70 1 120 240 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL858	250	250	6	0.9	0.5		0.05	200	70 1 70 400 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL858GR	250	250	6	0.9	0.5		0.05	200	70 1 200 400 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL858O	250	250	6	0.9	0.5		0.05	200	70 1 70 140 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL858Y	250	250	6	0.9	0.5		0.05	200	70 1 120 240 10 50 30	10		0.5	1 50	7	80	10	TO-237-1				
CIL859	300	300	6	0.9	0.5		0.05	250	70 1 70 400 10 70 30	10		0.5	1 50	7	80	10	TO-237-1				

CDIL

TO-237 Plastic Package Transistors (NPN)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V _{CEO} (V) Min	V _{CE0} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V)	h _{FE} Min	@ Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V) Max	V _{BE(SAT)} (V) Min	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ	Max	f _T (MHz) Min	@ Typ	I _C (mA) Max	t(off) (ns) Max	CDIL Case Style		
CIL859GR	300	300	6	0.9	0.5		0.05	250	70 200 50		1 400 10 30	10	0.5		1	50	7			80		10		TO-237-1	
CIL859D	300	300	6	0.9	0.5		0.05	250	70 70 50		1 140 10 30	10	0.5		1	50	7			80		10		TO-237-1	
CIL859Y	300	300	6	0.9	0.5		0.05	250	70 120 50		1 240 10 30	10	0.5		1	50	7			80		10		TO-237-1	
CIL2229	200	150	5	0.75	0.05		0.1	200	70	240	10	5	0.5		1	10	4	5		120		10		TO-237-1	
CIL2229D	200	150	5	0.75	0.05		0.1	200	70	140	10	5	0.5		1	10	4	5		120		10		TO-237-1	
CIL2229Y	200	150	5	0.75	0.05		0.1	200	120	240	10	5	0.5		1	10	4	5		120		10		TO-237-1	
CIL2230	200	160	5	0.75	0.1		0.1	200	120 80	400	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2230A	200	180	5	0.8	0.1		0.1	200	120 80	400	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2230AGR	200	180	5	0.8	0.1		0.1	200	200 80	400	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2230AY	200	180	5	0.8	0.1		0.1	200	120 80	240	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2230GR	200	160	5	0.75	0.1		0.1	200	200 80	400	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2230Y	200	160	5	0.75	0.1		0.1	200	120 80	240	10 50	10	0.5			50	7		50		10			TO-237-1	
CIL2328A	30	30	5	1	1.5		0.1	30	100	320	500	2	2			1500	30		120		500			TO-237-1	
CIL2328AO	30	30	5	1	1.5		0.1	30	100	200	500	2	2			1500	30		120		500			TO-237-1	
CIL2328AY	30	30	5	1	1.5		0.1	30	100	300	500	2	2			1500	30		120		500			TO-237-1	
CIL2331	80	60	8	1	0.7		0.1	60	40	240	50	2	0.7		1.2	500	8		30	50		50			TO-237-1
CIL2331D	80	60	8	1	0.7		0.1	60	40	140	50	2	0.7		1.2	500	8		30	50		50			TO-237-1
CIL2331Y	80	60	8	1	0.7		0.1	60	120	240	50	2	0.7		1.2	500	8		30	50		50			TO-237-1
CIL2482	300	300	7	0.9	0.1		1	240	20 30		4 150 20	10	1		1	10		3	50		20			TO-237-1	
CIL2655	50	50	5	0.75	1.5	2	1	50	70 40	240	500 1500	2	0.5			1000	30		100		500			TO-237-1	
CIL2655D	50	50	5	0.75	1.5	2	1	50	70 40	140	500 1500	2	0.5			1000	30		100		500			TO-237-1	
CIL2655Y	50	50	5	0.75	1.5	2	1	50	120 40	240	500 1500	2	0.5			1000	30		100		500			TO-237-1	
CN100	60	50	5	0.75	1		0.05	40	40	300	150	10	0.6			150			80					TO-237	
CN100A	60	50	5	0.75	1		0.05	40	40	120	150	10	0.6			150			80					TO-237	
CN100B	60	50	5	0.75	1		0.05	40	100	300	150	10	0.6			150			80					TO-237	

TO-237 Plastic Package Transistors (NPN)

CDIL

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)														
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V)	h _{FE} @ Min Max		I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & Max Min	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ Max	f _T (MHz) Min Typ Max	I _C (mA)	t(off) (ns) Max	CDIL Case Style	
CSC1573	250	250	5	1	0.07		2	12	30	220	5	10	1.2		50	10	50		10		TO-237-1
CSC1573A	300	300	7	1	0.07		2	12	30	220	5	10	1.2		50	8	50		10		TO-237-1
CSC1573AP	300	300	7	1	0.07		2	12	30	100	5	10	1.2		50	8	50		10		TO-237-1
CSC1573AQ	300	300	7	1	0.07		2	12	60	150	5	10	1.2		50	8	50		10		TO-237-1
CSC1573AR	300	300	7	1	0.07		2	12	100	220	5	10	1.2		50	8	50		10		TO-237-1
CSC1573P	250	250	5	1	0.07		2	12	30	100	5	10	1.2		50	10	50		10		TO-237-1
CSC1573Q	250	250	5	1	0.07		2	12	60	150	5	10	1.2		50	10	50		10		TO-237-1
CSC1573R	250	250	5	1	0.07		2	12	100	220	5	10	1.2		50	10	50		10		TO-237-1
CSC2330	300	300	6	0.9	0.1		0.1	200	40	240	20	10	0.5		10	4		50			TO-237-1
CSC23300	300	300	6	0.9	0.1		0.1	200	70	140	20	10	0.5		10	4		50			TO-237-1
CSC2330R	300	300	6	0.9	0.1		0.1	200	40	80	20	10	0.5		10	4		50			TO-237-1
CSC2330Y	300	300	6	0.9	0.1		0.1	200	120	240	20	10	0.5		10	4		50			TO-237-1
CSC2331	80	60	6	1	0.7		0.1	60	40	240	50	2	0.7	1.2	500	8	30	50	50		TO-237-1
CSC23310	80	60	6	1	0.7		0.1	60	70	140	50	2	0.7	1.2	500	8	30	50	50		TO-237-1
CSC2331R	80	60	6	1	0.7		0.1	60	40	80	50	2	0.7	1.2	500	8	30	50	50		TO-237-1
CSC2331Y	80	60	6	1	0.7		0.1	60	120	240	50	2	0.7	1.2	500	8	30	50	50		TO-237-1
CSC2383	160	160	6	0.9	1		1	150	60	320	200	5	1.5		500	20	20		200		TO-237-1
CSC23830	160	160	6	0.9	1		1	150	100	200	200	5	1.5		500	20	20		200		TO-237-1
CSC2383R	160	160	6	0.9	1		1	150	60	120	200	5	1.5		500	20	20		200		TO-237-1
CSC2383Y	160	160	6	0.9	1		1	150	160	320	200	5	1.5		500	20	20		200		TO-237-1
CSD468	25	20	5	0.9	1		1	20	85	240	500	2	0.5		800	22	190		500		TO-237-1
CSD468B	25	20	5	0.9	1		1	20	85	170	500	2	0.5		800	22	190		500		TO-237-1
CSD468C	25	20	5	0.9	1		1	20	120	240	500	2	0.5		800	22	190		500		TO-237-1
CTN368		20	5		1		10	25	50 85 60		5 375 500 1000	10 1 1	0.5		1000	27		60	10		TO-237
CTN391	200	200	6	0.75	0.5		0.1	160	25 40		1 10	10 10	2	2	20		5		50		TO-237
CTN392	250	250	6	0.75	0.5		0.1	200	25 40		1 10	10 10	2	2	20		5		50		TO-237
CTN393	300	300	6	0.75	0.5		0.1	200	25 40		1 10	10 10	2	2	20		5		50		TO-237
CTN635	45	45	5	0.75	1	1.5	10	30	25 40 25		5 150 500	2 2 2	0.5	1	1	7		130	1000		TO-237
CTN637	60	60	5	0.75	1	1.5	10	30	40	160	0.15	2	0.5	1	1	7		130	1000		TO-237

CDIL

TO-237 Plastic Package Transistors (NPN)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)														
Type No.	V _{CE0} (V) Min	V _{CE0} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CEO} (μA) Max	V _{CB} (V)	h _{FE} @ Min Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & (V) Max Min	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ Max	f _t (MHz) Min Typ Max	t(off) (ns) Max	CDIL Case Style			
CTN639	100	80	5	0.75	1	1.5	10	30	25 40 25	5 160 500	2 2 2	0.5 1		1	7		130	10	TO-237		
*MPSW13	30	30	10	1	1		0.1	30	5 10	10 100	5 5	1.5		100		125	10	TO-237-2			
TN368		20	5				10	25	50 85 60	5 375 1000	10 1 1	0.5		1000	27	60	10	TO-237-2			
TN391	200	200	6	0.75	0.5		0.1	160	25 40	1 10	10 10	2	2	20	2	50	10	TO-237			
TN392	250	250	8	0.75	0.5		0.1	200	25 40	1 10	10 10	2	2	20	2	50	10	TO-237			
TN393	300	300	8	0.75	0.5		0.1	200	25 40	1 10	10 10	2	2	20	2	50	10	TO-237			
TN635	45	45	5	0.75	1		0.1	30	40 25	250 500	2 2	0.5		500		130		TO-237-2			
TN637	60	60	5	0.75	1		0.1	30	40 25	160 500	2 2	0.5		500		130		TO-237-2			
TN639	100	80	5	1.75	1		0.1	30	40 25	160 500	2 2	0.5		500		130		TO-237-2			
TN2017	60	60	8	0.75	0.5		10	30	35 50 20	10 200 1000	10 10 10							TO-237-2			
TN2102	120	65	7	0.75	0.5		0.01	60	10 20 35 40 25 10	120 0.1 10 120 500 1000	0.1 10 10 10 10 10	0.5	1.1	150	15	60	50	TO-237-2			
TN2218A	75	40	6	0.75	0.6		0.01	60	25 20 40 35 25 20	500 150 120 10 1 0.1	10 1 10 10 10 10	0.3 1	0.6 2	1.2 500	8	250	20	TO-237-2			
TN2219	60	30	5	0.75	0.6		0.01	50	30 50 100 75 50 35	500 150 300 10 1 0.1	10 1 10 10 10 10	0.4 1.6	1.3 2.6	150 500	8	250	20	TO-237-2			
TN2219A	75	40	6	0.75	0.6		0.01	60	40 50 100 75 50 35	500 150 300 10 1 0.1	10 1 10 10 10 10	0.3 1	0.6 2	1.2 500	8	300	20	TO-237-2			
TN2270	60	45	7	0.75	0.5		0.05	60	30 50	1 200	10 10	0.9	1.2	150	15	100	50	TO-237-2			
TN3019	140	80	7	0.75	0.5		0.01	90	50 90 100 50 15	1 10 300 500 1000	10 10 10 10 10	0.2 0.5	1.1 500	150 500	12	100	50	TO-237-2			

* hFE value are K.

TO-237 Plastic Package Transistors (NPN)

CDIL

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V)	h _{FE} @		I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & (V)		V _{BE(SAT)} (V)	I _C @ (mA)	C _{ob} (pF)		f _t @			I _C (mA)	t(off) (ns) Max	CDIL Case Style
									Min	Max			Max	Min	Max		Typ	Max	Min	Typ	Max			
TN3020	140	80	7	0.75	0.5		0.01	90	30	100	1	10	0.2		1.1	150		12	80			50		TO-237-2
									40	120	10	10	0.5			500								
									40	120	150	10												
									30	100	500	10												
									15		1000	10												
TN3053	60	40	5	0.75	0.5		0.25	30	25		150	2.5	1.4		1.7	150		15	100			50		TO-237-2
									50	250	150	10												
TN3742	300	300	7	0.75	0.5		0.2	200	10		3	10	0.75		1	10		3	30			10		TO-237-2
									15		10	10	1		1.2	30								
									20	200	30	10												
									20		50	20												

CDIL TO-237 PLASTIC PACKAGE TRANSISTORS (PNP)

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)														
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CB} (V)	h _{FE} @ Min Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) & V _{BE(SAT)} (V)	I _C @ (mA)	C _{ob} (pF) Typ Max	f _t (MHz) Min Typ Max	t(off) (ns) Max	CDIL Case Style				
2N6708	60	45	5	0.75	1.5		0.1	60	40 40 25	50 250 500	2 2 2	1 0.5	1000 500		50		50	TO-237-1			
2N6709	80	60	5	0.75	1.5		0.1	80	40 40 25	50 250 500	2 2 2	1 0.5	1000 500		50		50	TO-237-1			
2N6710	100	80	5	0.75	1.5		0.1	100	40 40 25	50 250 500	2 2 2	1 0.5	1000 500		50		50	TO-237-1			
2N6726	40	30	5	0.75	2		0.1	40	55 60 50	10 100 200	1 1 1	0.5	1000		50		50	TO-237-2			
2N6727	50	40	5	0.75	1		0.1	50	55 60 50	10 100 250	1 1 1	0.5	1000		50	500	50	TO-237-2			
2N6728	60	60	5	0.75	1		0.1	40	80 50 20	50 250 500	1 1 1	0.35	250		50		50	TO-237-2			
2N6729	80	80	5	0.75	1		0.1	60	80 50 20	50 250 500	1 1 1	0.35	250		50		50	TO-237-2			
2N6730	100	100	5	0.75	1		0.1	80	80 50 20	50 250 500	1 1 1	0.35	250		50		50	TO-237-2			
2N6732	100	80	5	0.75	1		0.1	80	100 100	10 300	2 2	0.35	350		50		50	TO-237-2			
CIL916	160	160	5	0.75	0.05		0.1	160	50 90	1 400	10 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	50 200	1 400	10 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	50 135	1 270	10 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 90	1 180	10 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 40	240 1500	500 2	0.5	1000	40		100		500	TO-237-1		
CIL1020O	50	50	5	0.75	1.5	2	1	50	70 40	140 1500	500 2	0.5	1000	40		100		500	TO-237-1		
CIL1020Y	50	50	5	0.75	1.5	2	1	50	120 40	240 1500	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		

CDIL

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CBO} (μA) Max	V _{CE} (V)	h _{FE} @		I _C & (mA)	V _{CE} (V)	V _{CE} (SAT) (V) & (V)		V _{BE} (SAT) ¹ /I _C @ (mA)	C _{ob}	f _T (pF)	f _T (MHz)	I _C (mA)	t(off) (ms)	CDIL (ns) Max	Case Style	
									Min	Max			Max	Min	Max		Typ	Max	Min	Typ	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		2	20			50		10		TO-237
									40		10	10											
CTN492	250	250	6	0.75	0.5		0.1	200	25		1	10	2		2	20			50		10		TO-237
									40		10	10											
CTN493	300	300	6	0.75	0.5		0.1	200	25		1	10	2		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		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		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											

CDIL TO-237 PLASTIC PACKAGE TRANSISTORS (PNP)

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