

TO-106

EPOXY PACKAGE TRANSISTORS (PNP)

Maximum Ratings						Electrical Characteristics										(Ta=25°C, Unless Otherwise Specified)			
Type No.	V _{CB0} (V)	V _{CEO} (V)	V _{EBO} (V)	I _{CB0} (μA)	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)		I _C (mA)	NF (dB)	Freq (MHz)	t _{off} (ns)	
	Min	Min	Min	Max	Min	Max	Max	Max	Max	Min	Max	Max	Min	Typ	Max	Max	Max	Max	
CIL261	100	100	5.0	0.10	80	20		1.00 10	0.50		100	6.0		100					
CIL251	80	80	5.0	0.10	60	20		1.00 10	0.50		100	6.0		100					
2N4250A	60	60	5.0	0.01	50	250	700	0.10 5	0.25			10.0	6		2				
CIL241	60	60	5.0	0.03	40	50	150	1.00 10	0.80		100	6.0		100					
CIL242	60	60	5.0	0.03	40	100	300	1.00 10	0.80		100	6.0		100					
CIL245	60	60	5.0	0.03	40	40	150	1.00 10	0.60		100	3.0		300		4			
CIL246	60	60	5.0	0.05	50		100	0.01 5	0.60		10								
						175	0.10 5												
						100	300	1.00 10											
CIL258	60	60	5.0	0.10	40	40	150	10.00 1	0.30		10	3.0		300					
CIL157	50	45	5.0	0.10	20		140	2.00 5	0.30		10			150	10	10	35.0		
										0.85	100								
CIL157A	50	45	5.0	0.10	20		180	2.00 5	0.30		10			150	10	10			
CIL157B	50	45	5.0	0.10	20		290	2.00 5	0.30		10			150	2	10			
2N4142	60	40	5.0			20		500.0 10	0.40		1.30 150	8.0	200		50			100	
						20		150.0 1	1.60		2.60 500								
						40	120	150.0 10											
						35		10.00 10											
						25		1.00 10											
						20		0.10 10											
2N4143	60	40	5.0			30		500.0 10	0.40		1.30 150	8.0	200		50			100	
						50		150.0 1	1.60		2.60 500								
						100	300	150.0 10											
						75		10.00 10											
						50		1.00 10											
						35		0.10 10											
2N4248	40	40	5.0	0.01	40	50		0.10 5	0.25			10.0	6						
2N4250	40	40	5.0	0.01	40	250	700	0.10 5	0.25			10.0	6			2			
CIL231	40	40	5.0	0.03	30	50	150	1.00 10	0.60		100	6.0		100					
CIL232	40	40	5.0	0.03	30	100	300	1.00 10	0.60		100	6.0		100					
CIL233	40	40	5.0	0.03	30	200	500	1.00 10	0.60		100	6.0		100					
CIL234	40	40	5.0	0.03	30	400	1000	1.00 10	0.60		100	6.0		100					
CIL235	40	40	5.0	0.03	30	40	150	1.00 10	0.60		100	3.0		300		4			
CIL236	40	40	5.0	0.02	30		100	0.01 5	0.60		10								
							175	0.10 5											
						100	300	1.00 10											

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	V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	I _{CB0} (μA) Max	V _{CB} (V) Min	h _{FE} Max	h _{FE} Max	I _C & V _{CE} (mA) Max	I _C & V _{CE} (mA) Max	V _{CE(Sat)} & V _{BE(Sat)} (V) Max	V _{CE(Sat)} & V _{BE(Sat)} (V) Min	V _{CE(Sat)} & V _{BE(Sat)} (V) Max	I _C (mA) Max	C _{ob} (pF) Max	f _T (MHz) Min	f _T (MHz) Typ	f _T (MHz) Max	I _C (mA) Max	NF (dB) Max	Freq (MHz) Max	t _{off} (ns) Max
CIL237	40	40	5.0	0.03	30	200	500	1.00	10	0.60			100	3.0	300				4		
CIL238	40	40	5.0	0.02	30		100	0.01	5	0.60			10								
							175	0.10	5												
							400	1000	1.00	10											
CIL256	40	40	5.0	0.10	30	50	150	10.00	1	0.30			10	3.0	300						
CIL221	32	32	5.0	0.25	25	100		1.00	-5	0.30	-1.0		10	3.0	100						
CIL222	32	32	5.0	0.20	25		250	1.00	-5	0.30	-1.0		10	3.0	100						
CIL223	32	32	5.0	0.20	25		400	1.00	-5	0.30	-1.0		10	3.0	100						
CIL224	32	32	5.0	0.25	25	400	1000	1.00	10	0.30			10	6.0	100						
CIL158	30	25	5.0	0.10	20	#125	#500	2.00	5	0.30			10	150			10	10			
											0.85		100								
CIL158A	30	25	5.0	0.10	20		180	2.00	5	0.30			10		150		10	10			
CIL158B	30	25	5.0	0.10	20		290	2.00	5	0.30			10		150		10	10			
											0.85		100								
CIL240	25	25	5.0	0.01	20		100	0.01	5	0.60			10								
							175	0.10	5												
							250	1.00	5												
CIL159	25	20	5.0	0.10	20		140	2.00	5	0.30			10		150		10	4			
											0.85		100								
CIL159A	25	20	5.0	0.10	20	#125	#260	2.00	5	0.30			10	150			10	4			
											0.85		100								
CIL159B	25	20	5.0	0.10	20		290	2.00	5	0.30			10	150			10	4			
											0.85		100								
CIL211	20	20	5.0	0.03	15	50	150	1.00	10	0.30			10	6.0	100						
CIL212	20	20	5.0	0.03	15	100	300	1.00	10	0.30			10	6.0	100						
CIL213	20	20	5.0	0.03	15	200	500	1.00	10	0.30			10	6.0	100						
CIL214	20	20	5.0	0.03	15	400	1000	1.00	10	0.30			10	6.0	100						
CIL215	20	20	5.0	0.03	15	40	150	1.00	10	0.30			10	3.0	300				4		
CIL216	20	20	5.0	0.03	15	100	300	1.00	10	0.30			10	3.0	30				4		
CIL217	20	20	5.0	0.03	15	100	300	1.00	10	0.30			10	3.0	300				4		
CIL218	20	20	5.0	0.02	15		100	0.01	5	0.60			10								
							175	0.10	5												
							400	1000	1.00	10											