

# TO-105

## EPOXY PACKAGE TRANSISTORS (PNP)

Maximum Ratings					Electrical Characteristics										(Ta=25°C, Unless Otherwise Specified)				
Type No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EBO</sub> (V)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> (V)	h <sub>FE</sub>		I <sub>C</sub> & V <sub>CE</sub> (mA) (V)	V <sub>CE(Sat)</sub> & V <sub>BE(Sat)</sub> (V)		I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>T</sub> (MHz)		NF (dB)	Freq (MHz)	t <sub>off</sub> (ns)		
	Min	Min	Min	Max	Min	Max	Max	Max	Max	Min	Max	Max	Max	Min	Typ	Max	Max	Max	
2N4356	80	80	5.0	0.05	50	30		500.0	10	0.15		0.90	150	30.0	100	500	50	3	400
						40		100.0	10	0.50		1.10	500						
						50	250	10.00	10										
						40		1.00	10										
						25		0.10	10										
2N3645	60	60	5.0			40		0.10	10	0.40		1.30	150	8.0	200		20		
						80		1.00	10	1.00	0.8	2.00	300						
						100		10.00	10	0.25		1.00	50						
						100	300	50.0	10										
						20		300.0	2										
2N4354	60	60	5.0	0.05	50	30		500.0	10	0.15		0.90	150	30.0	100	500	50	3	400
						40		100.0	10	0.50		1.10	500						
						50	500	10.00	10										
						40		1.00	10										
						25		0.10	10										
2N4355	60	60	5.0	0.05	50	75		500.0	10	0.15		0.90	150	30.0	100	500	50	3	400
						75		100.0	10	0.50		1.10	500						
						100	400	10.00	10										
						75		1.00	10										
						60		0.10	10										
2N3644	45	45	5.0	0.04	30	20		300.0	2	0.25		1.00	50	8.0	200		20		100
						100	300	150.0	10	0.40		1.30	150						
						80	240	50.00	1	1.00	0.8	2.00	300						
						100		10.00	10										
						80		1.00	10										
CIL295	45	45	5.0	0.50	30	40	120	50.00	1	0.50			150	8.0		100			
CIL296	45	45	5.0	0.50	30	100	300	50.00	1	0.50			150	8.0		100			
CIL297	60	40	5.0	0.50	40	40	120	50.00	1	0.50			150	6.0		200			
CIL298	60	40	5.0	0.50	40	100	300	50.00	1	0.50			150	6.0		200			
2N3638	25	25	4.0	0.04	15	20		300.0	2	0.25	0.8	1.10	50	20.0	100		50		170
						20		50.00	1	1.00	0.8	2.00	300						
						30		10.00	10										
2N3638A	25	25	4.0	0.03	15	20		300.0	2	0.25	0.8	1.10	50	10.0	150		50		
						100		50.00	1	1.00	0.8	2.00	300						
						100		10.00	10										
						80		1.00	10										
CIL591	20	15	7.0	0.50	10	40	150	50.00	1	0.40			150	12.0		100			
CIL592	20	15	7.0	0.50	10	100	300	50.00	1	0.40			150	12.0		100			

NOTE: TYPICAL VALUES