

# 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>		V <sub>CE(Sat)</sub> & V <sub>BE(Sat)</sub>		I <sub>C</sub>	C <sub>ob</sub> (pF)	f <sub>T</sub> (MHz)			I <sub>C</sub> (mA)	NF (dB)	Freq (MHz)	t <sub>off</sub> (ns)
	Min	Min	Min	Max	Min	Max	Max	Max	Max	Max	Min	Max	Max	Max	Min	Typ	Max	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											
						80	240	50.00	1											
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											
						40		0.10	10											
CIL295	45	45	5.0	0.50	30	40	120	50.00	1	0.50		150	8.0							
CIL296	45	45	5.0	0.50	30	100	300	50.00	1	0.50		150	8.0							
CIL297	60	40	5.0	0.50	40	40	120	50.00	1	0.50		150	6.0							
CIL298	60	40	5.0	0.50	40	100	300	50.00	1	0.50		150	6.0							
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							
CIL592	20	15	7.0	0.50	10	100	300	50.00	1	0.40		150	12.0							

NOTE: TYPICAL VALUES