

PNP EPOXY – SATURATED SWITCH (Cont'd.)

TYPE NO.	V <sub>CB</sub>	V <sub>CE</sub>	V <sub>EB</sub>	h <sub>FE</sub>	at	I <sub>C</sub>	V <sub>CE</sub>	V <sub>CE(s)</sub>	at	I <sub>C</sub>	f <sub>T</sub>	C <sub>ob</sub>	t <sub>on</sub>	t <sub>off</sub>	I <sub>CBO</sub>	at	V <sub>CB</sub>	CASE
	V	V	V	min	ma	mA	V	V	mA	MHz	pF	nS	nS	μA	V			
2N4389	15	12	6	30	180	10	5	0.15	10	400	6	—	90	—	—	—	—	TO-106
2N5055	12	12	4	30	100	30	0.5	0.45	100	550	4.5	—	25	.05	10	—	—	TO-106
2N5140	5	5	4	20	140	10	1.0	0.75	50	400	5	—	20	.05	3	—	—	TO-106
2N5141	6	6	4	30	—	30	2	0.6	100	300	7	—	150	0.1	4	—	—	TO-106
2N5228	5	5	3	30	—	10	5	0.4	10	300	5	—	140	—	—	—	—	TO-92
2N5910	20	20	4	30	120	10	5	0.15	10	700	3	—	20	—	—	—	—	TO-106

PNP EPOXY – LOW NOISE LEVEL AMPLIFIER

TYPE NO.	V <sub>CB</sub>	V <sub>CE</sub>	V <sub>EB</sub>	h <sub>FE</sub>	at	I <sub>C</sub>	V <sub>CE</sub>	V <sub>CE(s)</sub>	at	I <sub>C</sub>	f <sub>T</sub>	C <sub>ob</sub>	NF	t <sub>off</sub>	I <sub>CBO</sub>	at	V <sub>CB</sub>	CASE
	V	V	V	min	max	mA	V	V	mA	MHz	pF	dB	nS	UA	V			
2N4248	40	40	5	100	300	0.1	1.0	0.25	10	—	6	—	—	—	.01	40	—	TO-106
2N4249	60	60	5	100	300	0.1	1.0	0.25	10	—	6	3	—	—	.01	40	—	TO-106
2N4250	40	40	5	250	700	0.1	5	0.25	10	—	6	2	—	—	.01	40	—	TO-106
2N4250A	70	60	5	250	700	0.10	5	—	—	—	—	—	2.0	—	—	—	—	TO-106
2N4964	50	40	5	30	120	.01	5	0.4	10	60	8	6	—	—	.025	20	—	TO-106
2N4965	50	40	5	80	400	.01	5	0.4	10	60	8	6	—	—	.025	20	—	TO-106
2N5086	60	50	3	150	500	0.1	5	—	—	—	—	—	3.0	—	—	—	—	TO-92
2N5087	60	50	3	250	800	0.10	5	—	—	—	—	—	2.0	—	—	—	—	TO-92
2N5378	40	30	5	100	500	.01	5	0.2	10	20	10	2.0	—	—	—	—	—	TO-92P
2N5379	40	30	5	40	200	.01	5	0.2	10	20	10	3.0	—	—	—	—	—	TO-92P

NPN – METAL CAN – SWITCHING AND GENERAL PURPOSE

TYPE NO.	V <sub>CB</sub>	V <sub>CE</sub>	V <sub>EB</sub>	h <sub>FE</sub>	at	I <sub>C</sub>	V <sub>CE</sub>	V <sub>CE(s)</sub>	at	I <sub>B</sub>	I <sub>C</sub>	f <sub>T</sub>	C <sub>ob</sub>	I <sub>CBO</sub>	at	V <sub>CB</sub>	CASE
	V	V	V	min	max	mA	V	V	mA	mA	MHz	pF	μA	V			
2N497	60	60	8	12	36	200	10	2	40	200	—	60	10	30	—	—	TO-5
2N497A	60	60	8	12	36	200	10	2	40	200	—	60	10	30	—	—	TO-5
2N498	100	100	8	12	36	200	10	2	40	200	—	60	10	30	—	—	TO-5
2N498A	100	100	8	12	36	200	10	2	40	200	—	60	10	30	—	—	TO-5
2N545	60	40	10	15	80	500	6	5	50	500	—	100	15	60	—	—	TO-5
2N546	30	30	6	15	80	500	6	3	50	500	—	80	15	30	—	—	TO-5
2N547	60	60	6	20	80	500	6	5	50	500	4	80	15	60	—	—	TO-5
2N548	30	30	6	20	80	500	6	3	50	500	4	80	15	30	—	—	TO-5
2N549	60	60	6	20	80	200	6	4	20	200	—	100	15	60	—	—	TO-5
2N550	30	30	6	20	80	200	6	4	20	200	—	100	15	30	—	—	TO-5
2N551	60	60	6	20	80	50	6	2	5	50	—	100	15	60	—	—	TO-5
2N552	30	30	6	20	80	50	6	2	5	50	—	60	15	30	—	—	TO-5
2N656	60	60	8	30	90	200	10	5	40	200	12	60	10	30	—	—	TO-5
2N656A	60	60	8	30	90	200	10	2	10	200	—	60	10	30	—	—	TO-5
2N657	100	100	8	30	90	200	10	5	40	200	12	60	10	30	—	—	TO-5
2N657A	100	100	8	30	90	200	10	2	10	200	—	60	10	30	—	—	TO-5
2N696	60	40	5	20	60	150	10	1.5	15	150	80	35	1	30	—	—	TO-5
2N697	60	40	5	40	120	150	10	1.5	15	150	100	35	1	30	—	—	TO-5
2N698	120	60	7	20	60	150	10	5.0	15	150	60	20	0.005	75	—	—	TO-5
2N699	120	80	5	40	120	150	10	5.0	15	150	60	20	2	60	—	—	TO-5
2N699A	80	70	5	40	120	150	10	5.0	15	150	50	20	—	—	—	—	TO-5
2N699B	120	80	7	40	120	150	10	1.3	15	150	60	15	.01	90	—	—	TO-5
2N703	25	25	5	40	100	10	10	0.5	1	10	70	0.5	—	—	—	—	TO-18
2N717	60	40	5	20	60	150	10	1.5	15	150	40	35	—	—	—	—	TO-18
2N718	60	40	5	40	120	150	10	1.5	15	150	90	20	1	30	—	—	TO-18
2N718A	75	32	7	40	120	150	10	1.5	15	150	60	25	0.01	60	—	—	TO-18
2N719	120	60	5	20	60	150	10	5.0	15	10	40	20	2	60	—	—	TO-18
2N719A	120	60	7	20	60	150	10	5.0	15	10	40	15	.01	75	—	—	TO-18
2N720	120	80	5	40	120	150	10	5	15	150	50	20	2	60	—	—	TO-18
2N720A	120	80	7	40	120	150	10	5	15	150	50	15	0.01	90	—	—	TO-18
2N730	60	35	5	20	60	150	10	1.5	15	150	40	35	—	—	—	—	TO-18
2N731	60	35	5	40	120	150	10	1.5	15	150	50	35	—	—	—	—	TO-18
2N870	100	60	7	20	120	150	10	5.0	15	150	50	15	.01	75	—	—	TO-18
2N871	100	60	7	100	300	150	10	5.0	15	150	60	15	.01	75	—	—	TO-18
2N909	30	25	5	110	350	50	10	2.0	5	50	50	25	—	—	—	—	TO-18

# CASE OUTLINE DRAWINGS

D



CASE A

CBR1 Series  
CBR2 Series



CASE B

CBR1-L Series  
CBR2-L Series



CASE C

CBR3-P Series



CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

CBR10 Series, CBR25 Series  
CBR12 Series, CBR30 Series

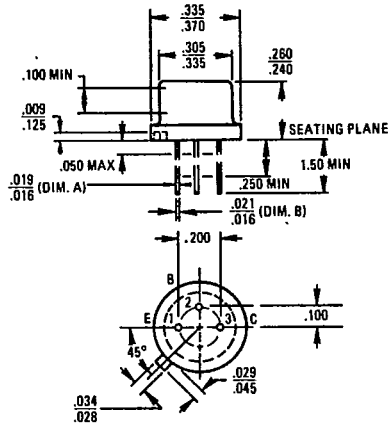
All Dimensions in Inches (Millimeters)

Drawings Not To Scale

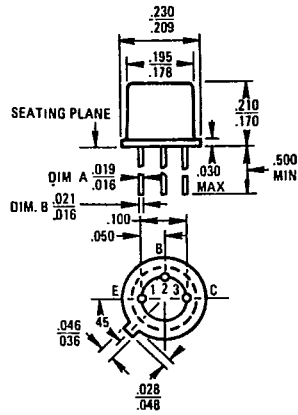
f

# MECHANICAL OUTLINE DRAWINGS

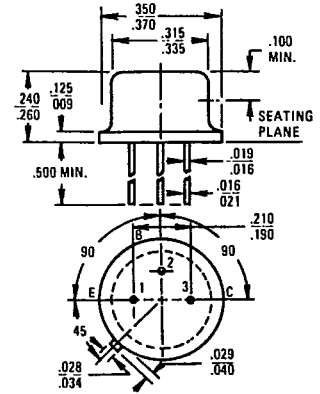
TO-5



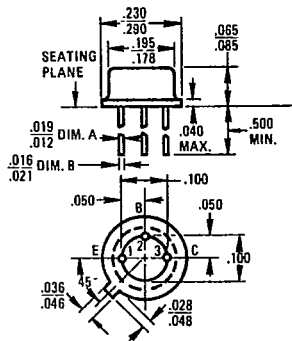
TO-18



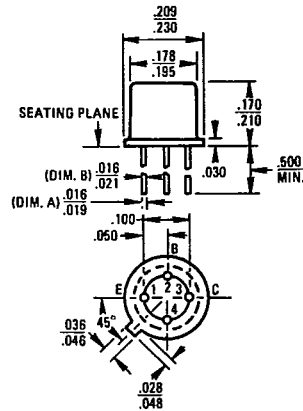
TO-39



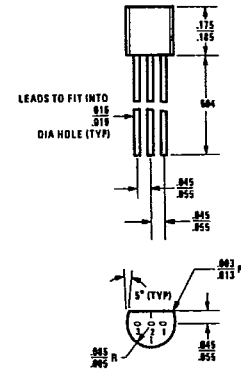
TO-46



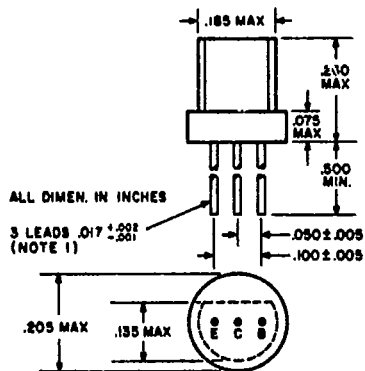
TO-72



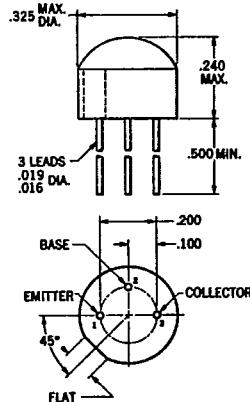
TO-92



TO-98



TO-105



TO-106

