

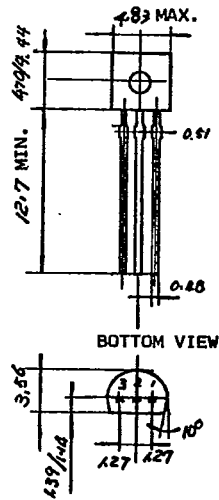
Power Transistors

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			H_{FE}				$V_{CE(SAT)}$		f_T min (MHz)	COMPLEMENTARY TYPE
			P_d (W)	I_C (A)	V_{CEO} (V)	min	max	I_C (A)	V_{CE} (V)	max (V)	I_C (A)		
BD 239	N	TO-220B	30	2	45	15	—	1	4	0.7	1	3	BD 240
BD 239A	N	TO-220B	30	2	60	15	—	1	4	0.7	1	3	BD 240A
BD 239B	N	TO-220B	30	2	80	15	—	1	4	0.7	1	3	BD 250B
BD 240	P	TO-220B	30	2	45	15	—	1	4	0.7	1	3	BD 239A
BD 240A	P	TO-220B	30	2	60	15	—	1	4	0.7	1	3	BD 239A
BD 240B	P	TO-220B	30	2	80	15	—	1	4	0.7	1	3	BD 239B
BD 241	N	TO-220B	40	3	45	25	—	1	4	1.2	3	3	BD 242
BD 241A	N	TO-220B	40	3	60	25	—	1	4	1.2	3	3	BD 242A
BD 241B	N	TO-220B	40	3	80	25	—	1	4	1.2	3	3	BD 242B
BD 242	P	TO-220B	40	3	45	25	—	1	4	1.2	3	3	BD 241
BD 242A	P	TO-220B	40	3	60	25	—	1	4	1.2	3	3	BD 241A
BD 242B	P	TO-220B	40	3	80	25	—	1	4	1.2	3	3	BD 241B
BD 301	N	TO-220B	55	8	45	30	—	3	2	1	3	3	—
BD 303	N	TO-220B	55	8	60	30	—	3	2	1	3	3	—
BD 415	N	TO-220B	2	1	60	80	300	0.05	1	0.5	0.25	75	BD 416
BD 416	P	TO-220B	2	1	60	80	300	0.05	1	0.5	0.25	75	BD 415
BD 417	N	TO-220B	2	1	80	80	300	0.05	1	0.5	0.25	75	BD 418
BD 418	P	TO-220B	2	1	80	80	300	0.05	1	0.5	0.25	75	BD 417
BD 533	N	TO-220B	50	4	45	25	—	2	2	0.8	2	3	BD 534
BD 535	N	TO-220B	50	4	60	25	—	2	2	0.8	2	3	BD 536
BD 537	N	TO-220B	50	4	80	15	—	2	2	0.8	2	3	BD 538
BD 633	N	TO-220B	30	2	45	25	—	1	2	0.6	1	3	BD 634
BD 634	P	TO-200B	30	2	45	25	—	1	2	0.6	1	3	BD 633
BD 635	N	TO-220B	30	2	60	25	—	1	2	0.6	1	3	BD 636
BD 636	P	TO-220B	30	2	60	25	—	1	2	0.6	1	3	BD 635
BD 637	N	TO-220B	30	2	80	25	—	1	2	0.6	1	3	BD 638
BD 638	P	TO-220B	30	2	80	25	—	1	2	0.6	1	3	BD 637
D 44C1	N	TO-220B	30	4	30	10	—	1	1	0.5	1	30+	D 45C1
D 44C2	N	TO-220B	30	4	30	20	—	1	1	0.5	1	30+	D 45C2
D 44C3	N	TO-220B	30	4	30	20	—	2	1	0.5	1	30+	D 45C3
D 44C4	N	TO-220B	30	4	45	10	—	1	1	0.5	1	30+	D 45C4
D 44C5	N	TO-220B	30	4	45	20	—	1	1	0.5	1	30+	D 45C5
D 44C6	N	TO-220B	30	4	45	20	—	2	1	0.5	1	30+	D 45C6
D 44C7	N	TO-220B	30	4	60	10	—	1	1	0.5	1	30+	D 45C7
D 44C8	N	TO-220B	30	4	60	20	—	1	1	0.5	1	30+	D 45C8
D 44C9	N	TO-220B	30	4	60	20	—	2	1	0.5	1	30+	D 45C9
D 44C10	N	TO-220B	30	4	80	10	—	1	1	0.5	1	30+	D 45C10
D 44C11	N	TO-220B	30	4	80	20	—	1	1	0.5	1	30+	D 45C11
D 44C12	N	TO-220B	30	4	80	20	—	2	1	0.5	1	30+	D 45C12
D 45C1	P	TO-220B	30	4	30	10	—	1	1	0.5	1	30+	D 44C1
D 45C2	P	TO-220B	30	4	30	20	—	1	1	0.5	1	30+	D 44C2
D 45C3	P	TO-220B	30	4	30	20	—	2	1	0.5	1	30+	D 44C3
D 45C4	P	TO-220B	30	4	45	10	—	1	1	0.5	1	30+	D 44C4
D 45C5	P	TO-220B	30	4	45	20	—	1	1	0.5	1	30+	D 44C5
D 45C6	P	TO-220B	30	4	45	20	—	2	1	0.5	1	30+	D 44C6
D 45C7	P	TO-220B	30	4	60	10	—	1	1	0.5	1	30+	D 44C7
D 45C8	P	TO-220B	30	4	60	20	—	1	1	0.5	1	30+	D 44C8
D 45C9	P	TO-220B	30	4	60	20	—	2	1	0.5	1	30+	D 44C9
D 45C10	P	TO-220B	30	4	80	10	—	1	1	0.5	1	30+	D 44C10
D 45C11	P	TO-220B	30	4	80	20	—	1	1	0.5	1	30+	D 44C11
D 45C12	P	TO-220B	30	4	80	20	—	2	1	0.5	1	30+	D 44C12
MH 0810	P	TO-220B	12	3	30	40	240*	0.5	2	0.8	2	30	MH 8100
MH 0816	P	TO-220B	10	1	60	40	240*	0.2	2	0.5	0.5	50	MH 8106
MH 0818	P	TO-220B	10	1	80	40	240*	0.2	2	0.5	0.5	50	MH 8108

* H_{FE} groupings available + Typical value

Mechanical Outlines

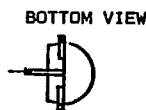
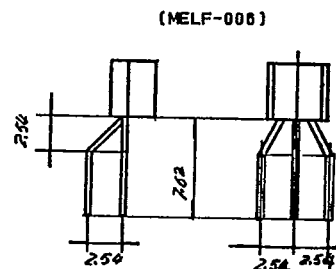
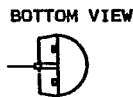
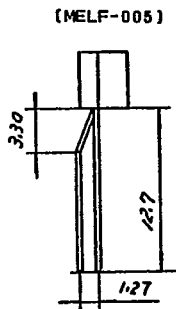
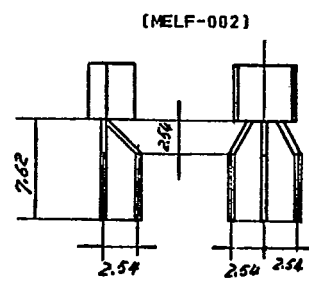
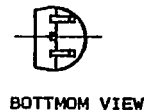
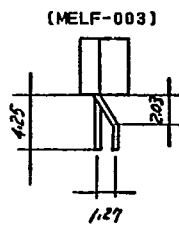
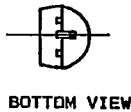
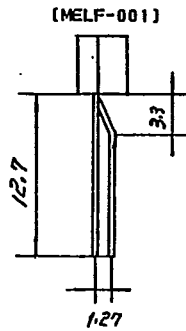
TO-92



LEAD CODE	1	2	3
A	E	B	C
B	E	C	B
C	B	E	C
D	B	C	E
E*	C	E	B
F*	C	B	E
BA*	K	A	G
BF*	A	G	K
DA	B	G	D
DB	B	D	G
DC	D	G	B
DD	D	G	B
DE*	G	B	D
DF*	G	D	B
VOLTAGE REGULATOR			
D	O	G	L

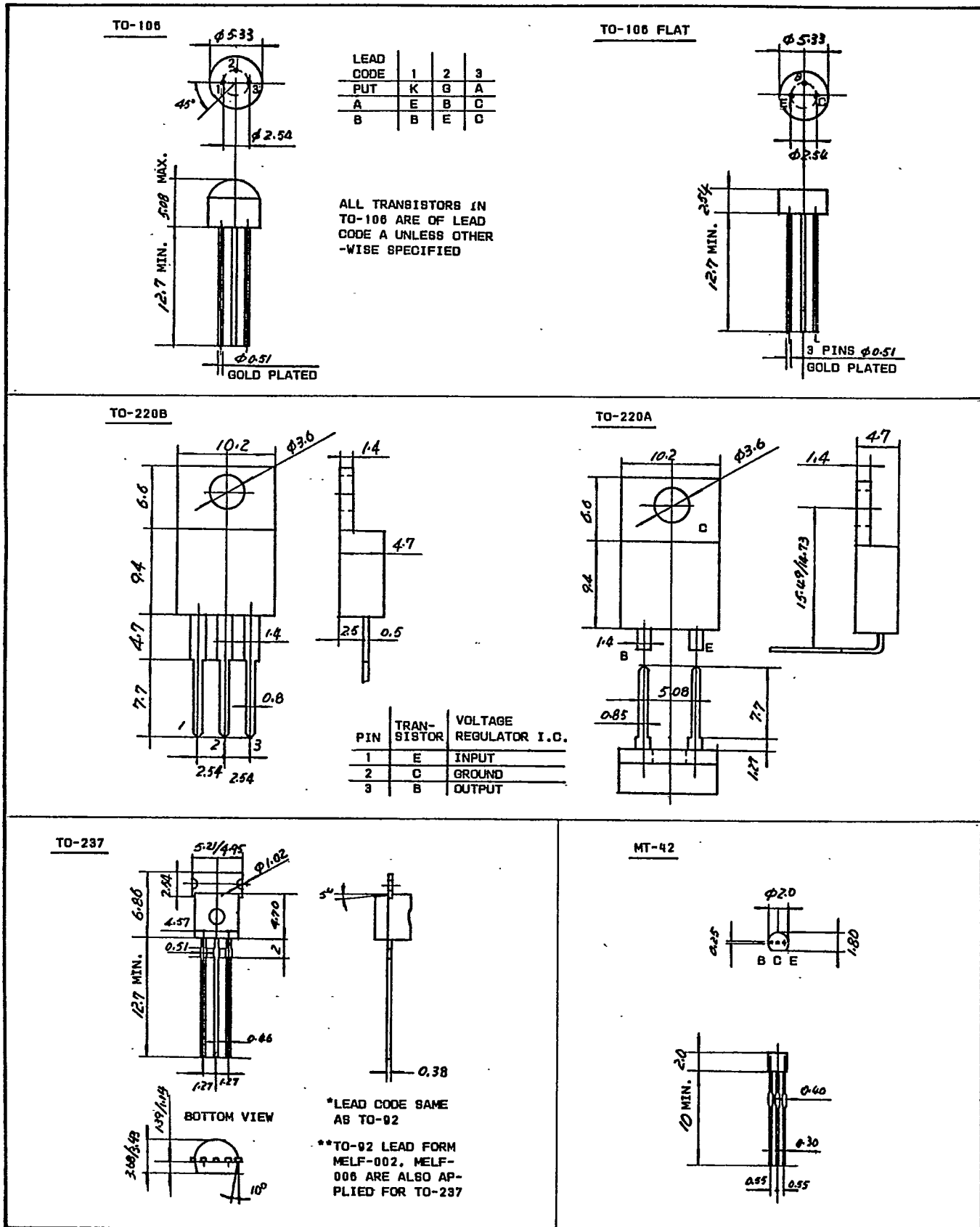
*ALL LEAD FORM TO MELF-001 UNLESS OTHERWISE NOTED.

TO-92 LEAD FORM



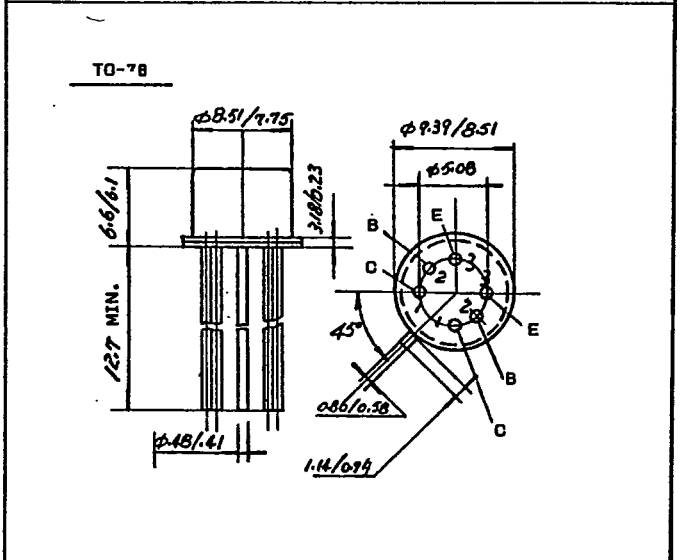
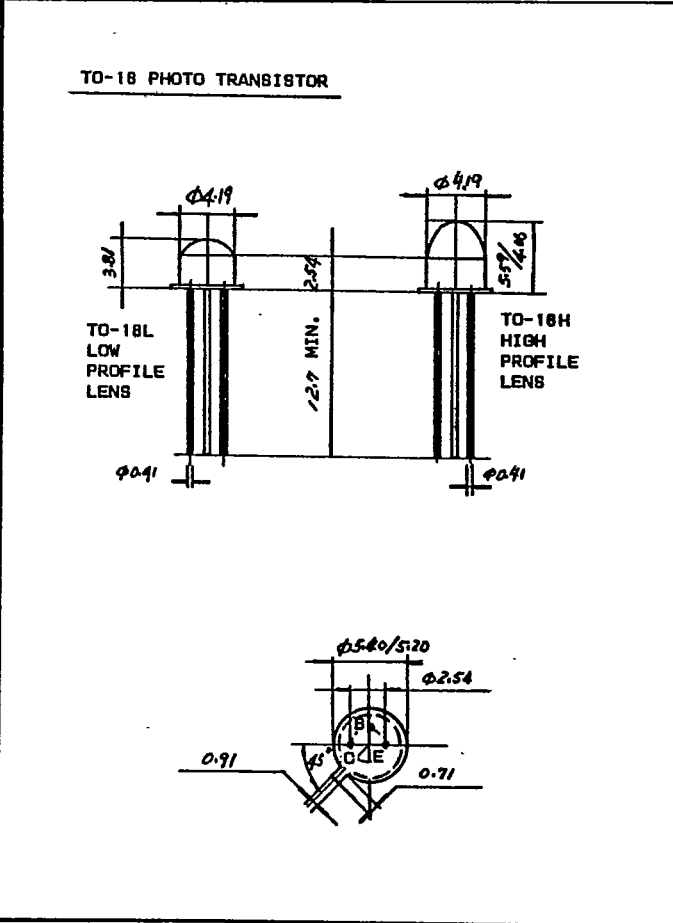
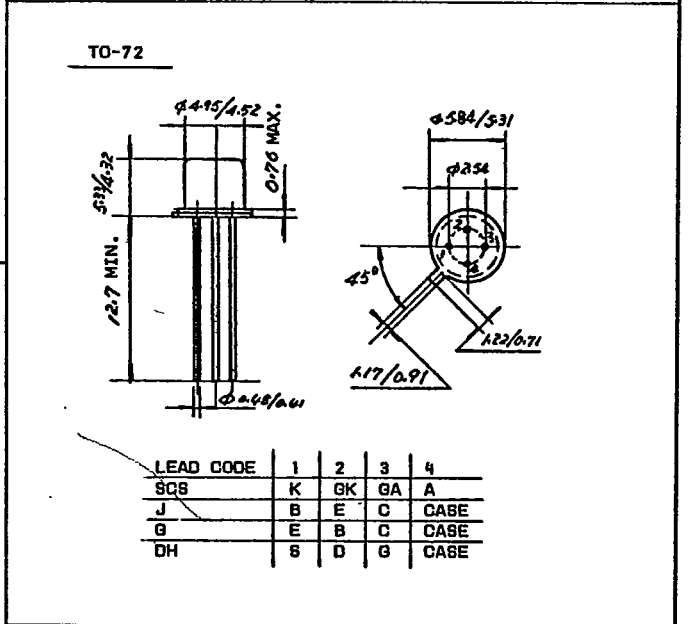
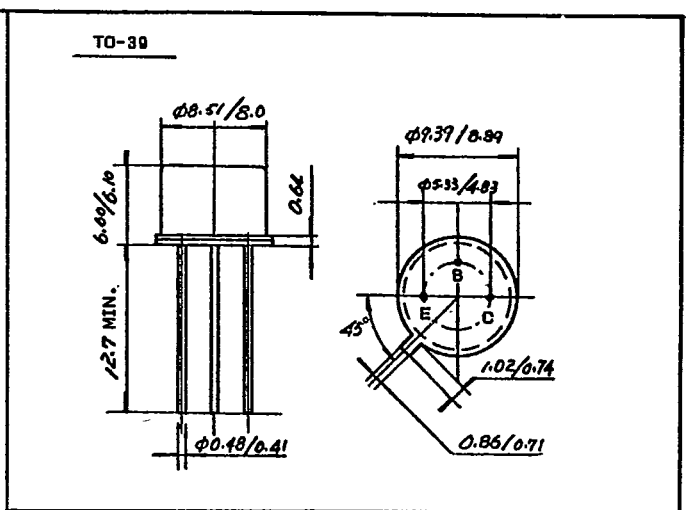
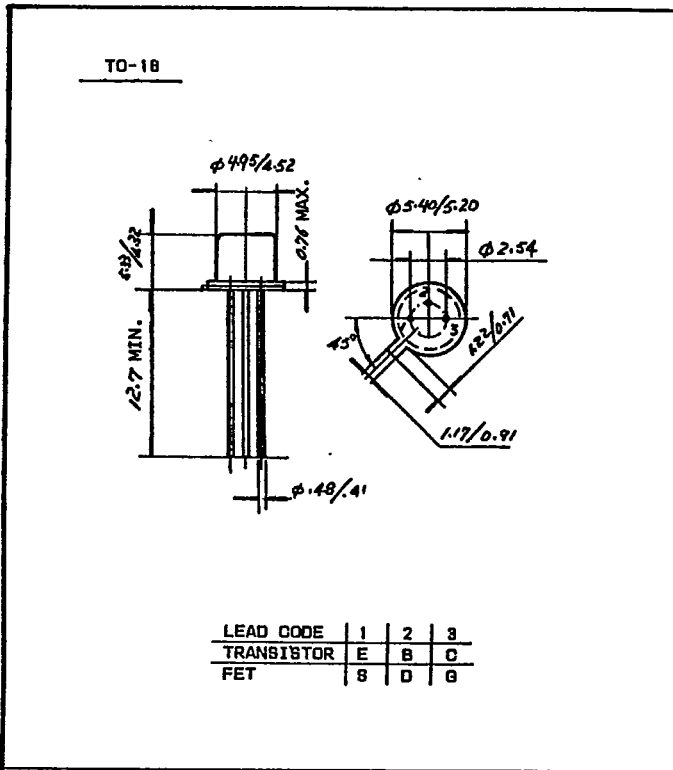
ALL DIMENSIONS IN mm

Mechanical Outlines



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