

Miniature Transistors

GENERAL PURPOSE

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			H _{FE}				V _{CE(SAT)}		f _T min (MHz)	N.F. max (dB)	f (Hz)
			Pd (mW)	I _C (mA)	V _{CEO} (V)	min	max	I _C (mA)	V _{CEO} (V)	max (V)	I _C (mA)			
BC 146	N	MT-42	50	50	20	80	550	0.2	0.5	—	—	150+	1.5+	30-15K
BC 146R	N	MT-42	50	50	20	80	200	0.2	0.5	—	—	80+	1.5+	30-15K
BC 146Y	N	MT-42	50	50	20	140	350	0.2	0.5	—	—	110+	4	30-15K
BC 146G	N	MT-42	50	50	20	280	550	0.2	0.5	—	—	150+	1.5+	30-15K
BC 200	P	MT-42	50	50	20	50	400	0.2	0.5	—	—	150+	1.5+	30-15K
BC 200R	P	MT-42	50	50	20	50	105	0.2	0.5	—	—	80+	1.5+	30-15K
BC 200Y	P	MT-42	50	50	20	85	200	0.2	0.5	—	—	110+	4	30-15K
BC 200G	P	MT-42	50	50	20	165	400	0.2	0.5	—	—	150+	1.5+	30-15K
BCW 83	N	MT-42	225	200	30	100	850 *	2	5	0.25	10	150	10	1K
CL 151-4	N	MT-42	100	100	10	60	600	1	5	0.3	10	—	—	—
CL 151-4A	N	MT-42	100	100	10	60	150	1	5	0.3	10	—	—	—
CL 151-4B	N	MT-42	100	100	10	100	300	1	5	0.3	10	—	—	—
CL 151-4C	N	MT-42	100	100	10	200	600	1	5	0.3	10	—	—	—
CL 152-4	P	MT-42	100	100	10	60	600	1	5	0.3	10	—	—	—
CL 152-4A	P	MT-42	100	100	10	60	150	1	5	0.3	10	—	—	—
CL 152-4B	P	MT-42	100	100	10	100	300	1	5	0.3	10	—	—	—
CL 152-4C	P	MT-42	100	100	10	200	600	1	5	0.3	10	—	—	—
MT 0411	P	MT-42	50	50	20	100	300	1	5	0.25	10	40	4	1K
MT 0412	P	MT-42	50	50	20	200	600	1	5	0.25	10	40	3	1K
MT 0413	P	MT-42	50	50	20	60	—	1	5	0.25	10	40	4	1K
MT 0414	P	MT-42	50	50	20	50	500	1	5	0.3	1	40	4	1K
MT 4101	N	MT-42	50	50	20	70	300	1	5	0.25	10	60	4	1K
MT 4102	N	MT-42	50	50	20	200	600	1	5	0.25	10	60	3	1K
MT 4103	N	MT-42	50	50	40	100	600	1	5	0.25	10	60	4	1K
MT 4104	N	MT-42	50	50	25	50	500	1	5	0.3	1	40	4	1K

HIGH FREQUENCY

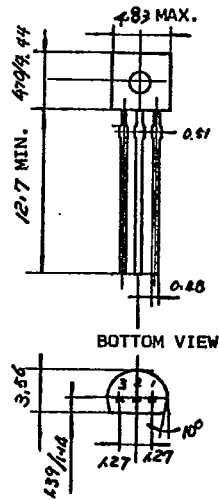
TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			H _{FE}				V _{CE(SAT)}		f _T min (MHz)	N.F. max (dB)	f (Hz)
			Pd (mW)	I _C (mA)	V _{CEO} (V)	min	max	I _C (mA)	V _{CE} (V)	max (V)	I _C (mA)			
MT 3001	N	MT-42	50	50	12	20	200	1	5	0.25	10	400	4+	60M
MT 3011	N	MT-42	50	50	12	20	—	8	10	0.6	10	600	4+	60M

+ Typical value

* H_{FE} groupings available

Mechanical Outlines

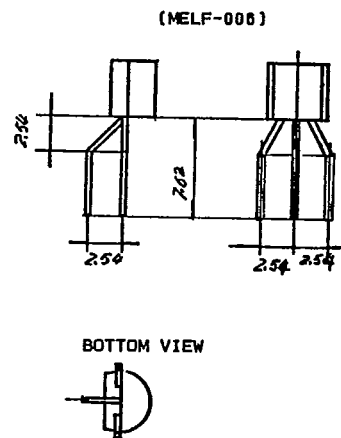
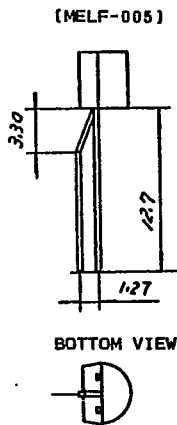
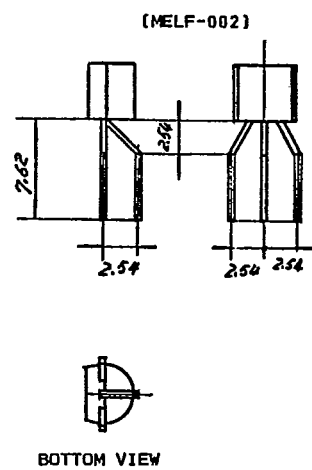
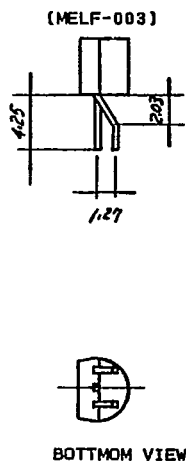
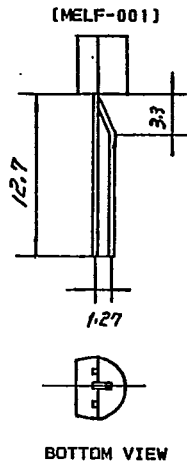
TO-92



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

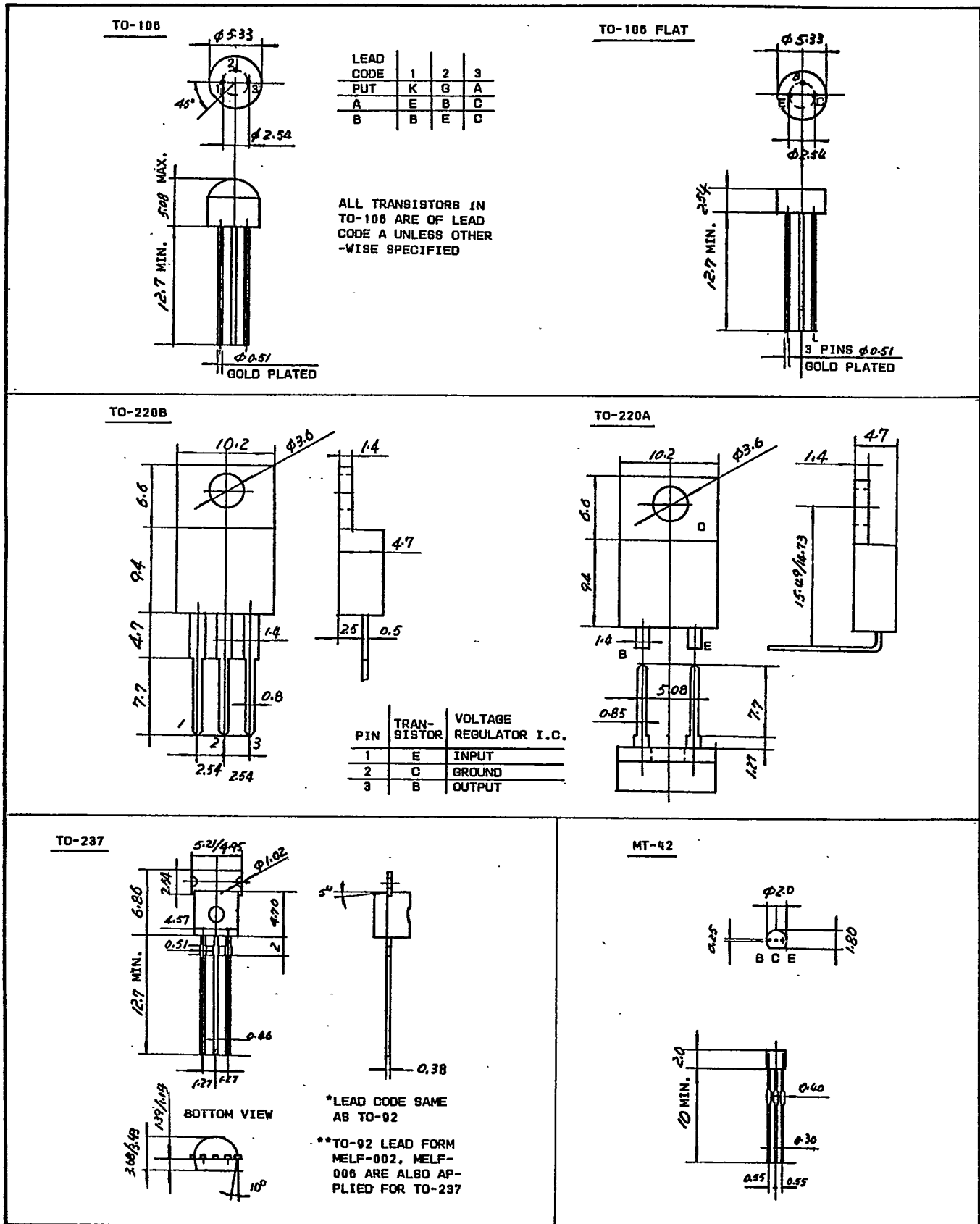
*ALL LEAD FORM TO MELF-001 UNLESS OTHERWISE NOTED.

TO-92 LEAD FORM



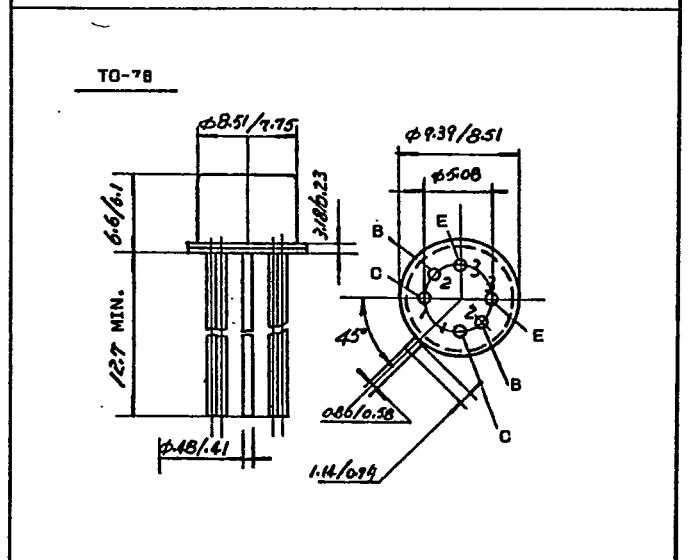
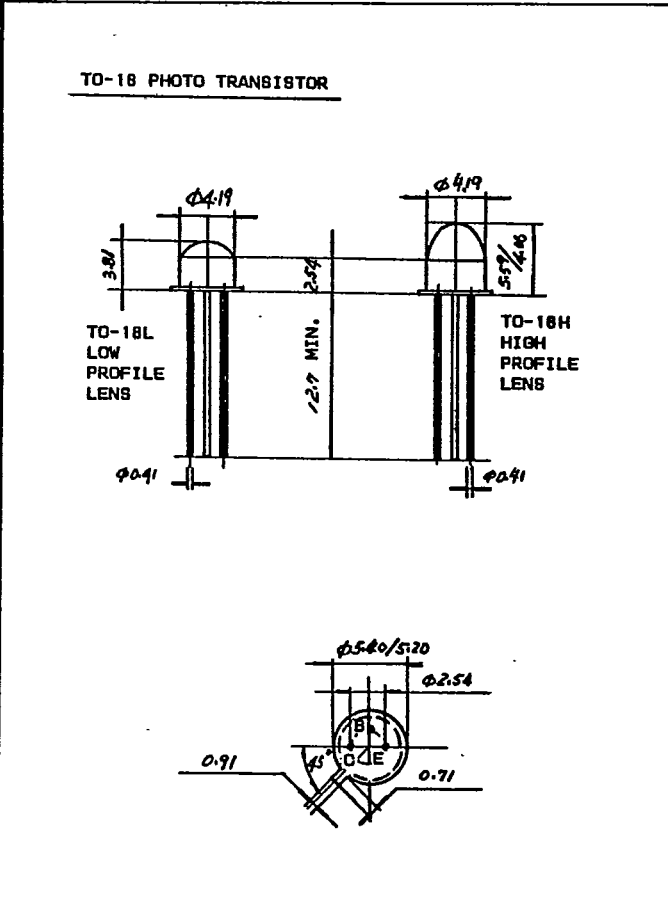
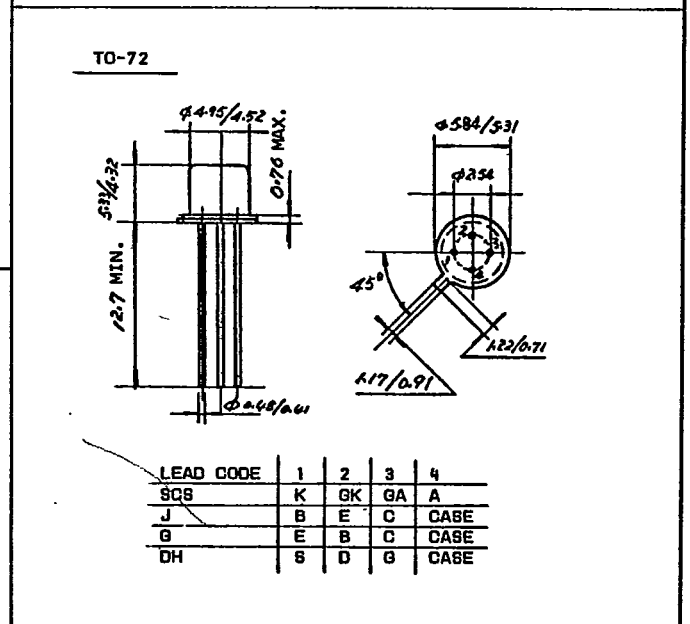
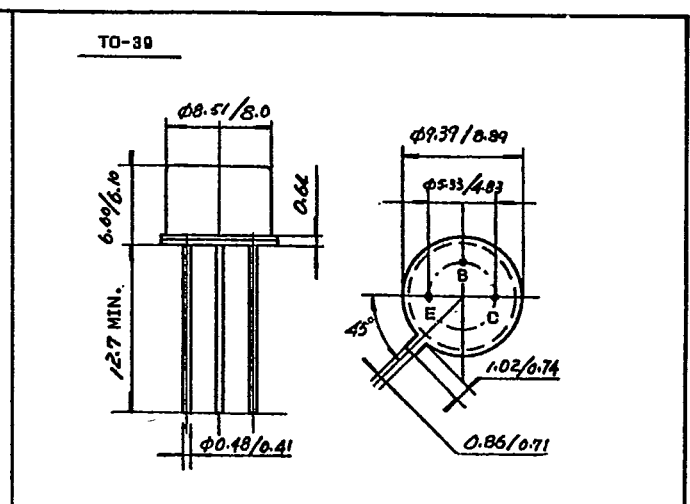
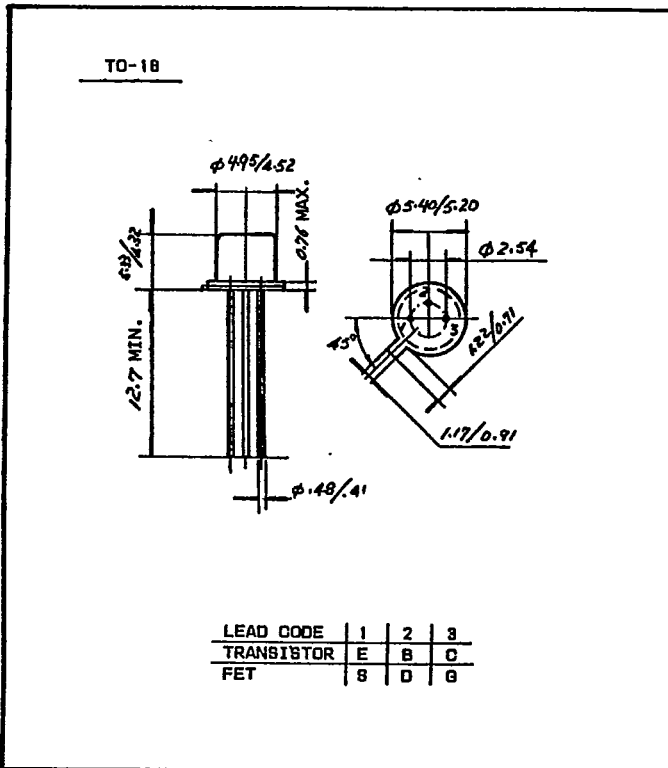
ALL DIMENSIONS IN mm

Mechanical Outlines



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ALL DIMENSIONS IN mm