

Low Level and General Purpose Amplifiers

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			H_{FE}				$V_{CE(SAT)}$		f_T min (MHz)	Cob max (pF)	N.F. max (dB)
			P_d (mW)	I_C (mA)	V_{CEO} (V)	min	max	I_C (mA)	V_{CE} (V)	max (V)	I_C (mA)			
BC 416	P	TO-92F	300	100	45	120	800 #	2	5	0.6	100	200+	2.7+	2
BC 451	N	TO-92F	300	100	45	110	800 #	2	6	—	—	150	4.5	10
BC 452	N	TO-92F	300	100	30	110	800 #	2	6	—	—	150	4.5	10
BC 453	N	TO-92F	300	100	30	110	800 #	2	6	—	—	150	4.5	4
BC 454	P	TO-92F	300	100	45	125	800 #	2	6	—	—	150	6	10
BC 455	P	TO-92F	300	100	30	125	800 #	2	6	—	—	150	6	10
BC 456	P	TO-92F	300	100	30	125	800 #	2	6	—	—	150	6	4
BC 478	P	TO-18	360	150	50	110	450 #	2	5	0.25	10	—	6	6
BC 479	P	TO-18	360	150	40	220	450 #	2	5	0.25	10	—	6	4
BC 546	N	TO-92F	500	100	65	110	450 #	2	5	0.6	100	300+	4.5	10
BC 547	N	TO-92F	500	100	45	110	450 #	2	5	0.6	100	250+	4.5	10
BC 548	N	TO-92F	500	100	30	110	800 #	2	5	0.6	100	250+	4.5	10
BC 549	N	TO-92F	500	100	30	200	800 #	2	5	0.6	100	250+	4.5	4
BC 550	N	TO-92F	500	100	45	200	800 #	2	5	0.6	100	250+	4.5	4
BC 556	P	TO-92F	500	100	65	110	450 #	2	5	0.6	100	300+	4.5	10
BC 557	P	TO-92F	500	100	45	70	450 #	2	5	0.65	100	180+	3.2+	10
BC 558	P	TO-92F	500	100	30	70	800 #	2	5	0.65	100	180+	3.2+	10
BC 559	P	TO-92F	500	100	30	110	800 #	2	5	0.65	100	180+	3.2+	4
BC 560	P	TO-92F	500	100	45	110	800 #	2	5	0.65	100	180+	3.2+	4
BC 582	N	TO-92F	300	200	45	125	—▲#	2	5	0.6	100	150	5	10
BC 583	N	TO-92F	300	200	20	125	—▲#	2	5	0.6	100	150	5	10
BC 584	N	TO-92F	300	200	20	240	—▲#	2	5	0.6	100	150	5	4
BC 585	N	TO-92F	350	100	20	120	320	0.5	5	—	—	—	—	—
BC 586	P	TO-92F	350	100	20	120	320	0.5	5	—	—	—	—	—
BCW 86	P	TO-92F	300	200	50	150	350	2	5	0.2	10	200	5+	—
BCX 58	N	TO-92F	450	100	32	120	630 #	2	5	0.5	100	125	4.5	6
BCX 59	N	TO-92F	450	100	45	120	630 #	2	5	0.5	100	125	4.5	6
BCX 78	P	TO-92F	450	100	32	120	630 #	2	5	0.6	100	100	4.5	6
BCX 79	P	TO-92F	450	100	45	120	630 #	2	5	0.6	100	100	4.5	6
BCY 56	N	TO-18	300	100	45	100	450	2	5	0.6	10	250+	4.5+	5
BCY 57	N	TO-18	300	100	20	200	800	2	5	0.6	10	350+	4.5	5
BCY 58	N	TO-18	360	200	32	120	630 #	2	5	0.35	10	125	6	6
BCY 59	N	TO-18	360	200	45	120	630 #	2	5	0.35	10	125	6	6
BCY 65E	N	TO-18	360	100	60	120	460 #	2	5	0.7	100	125	6	6
BCY 66	N	TO-18	360	50	45	180	630 #	2	5	0.35	10	125	6	2
BCY 67	P	TO-18	360	50	45	180	630 #	2	5	0.25	10	180+	7	2
BCY 69	N	TO-18	300	100	20	450	—	2	5	0.25	10	150	8	5
BCY 70	P	TO-18	300	200	40	50	—	10	1	0.25	10	250	6	6
BCY 71	P	TO-18	350	200	45	100	600	10	1	0.25	10	200	6	2
BCY 72	P	TO-18	350	200	25	50	—	10	1	0.25	10	200	6	6
BCY 78	P	TO-18	350	200	32	120	630 #	2	5	0.25	10	100	7	6
BCY 79	P	TO-18	350	200	45	120	460 #	2	5	0.25	10	100	7	6
BCY 85	N	TO-92A	300	200	60	100	400	2	5	0.3	100	200	5	—
BCY 86	N	TO-92A	300	200	50	250	600	2	5	0.3	100	200	5	—
BF 394	N	TO-92C	350	100	30	65	350	1	10	0.25	10	80	—	—
BFW 22	P	TO-18	360	100	45	250	600	1	5	0.4	50	50	6	2
BFX 37	P	TO-18	360	50	60	100	—	10	5	0.4	50	50	6	3
BFX 50	N	TO-18	350	1000	35	30	—	150	10	0.4+	500	60	4+	—
BFX 65	P	TO-18	360	50	45	100	—	10	5	0.25	10	150+	6.5	3
BFX 92	N	TO-18	300	30	45	40	120	0.01	5	—	—	30	8	4
BFX 93	N	TO-18	300	30	45	100	300	0.01	5	—	—	30	8	3

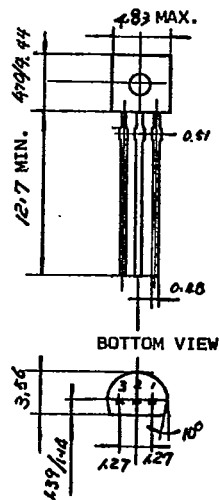
H_{FE} groupings available

▲ hfe @ 1 KHz

+ Typical value

Mechanical Outlines

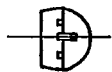
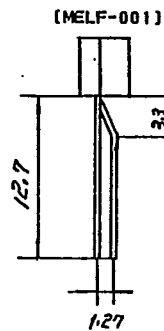
TO-92



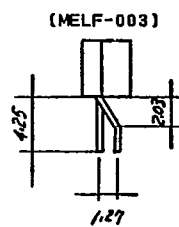
LEAD CODE	1	2	3
A	E	B	C
B	E	C	B
C	B	E	C
D	B	C	E
E*	C	E	B
F*	C	B	E
BA*	K	A	G
BF*	A	G	K
DA	B	G	D
DB	B	D	G
DC	D	G	B
DD	D	B	G
DE*	G	B	D
DF*	G	D	B
VOLTAGE REGULATOR			
D	O	G	L

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

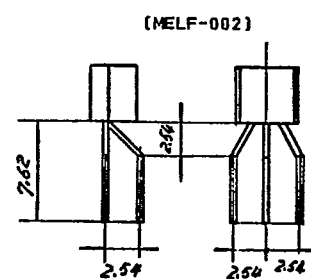
TO-92 LEAD FORM



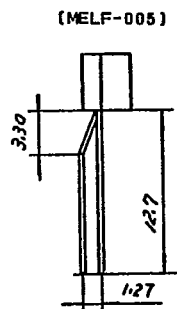
BOTTOM VIEW



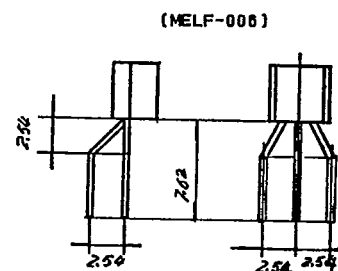
BOTTOM VIEW



BOTTOM VIEW



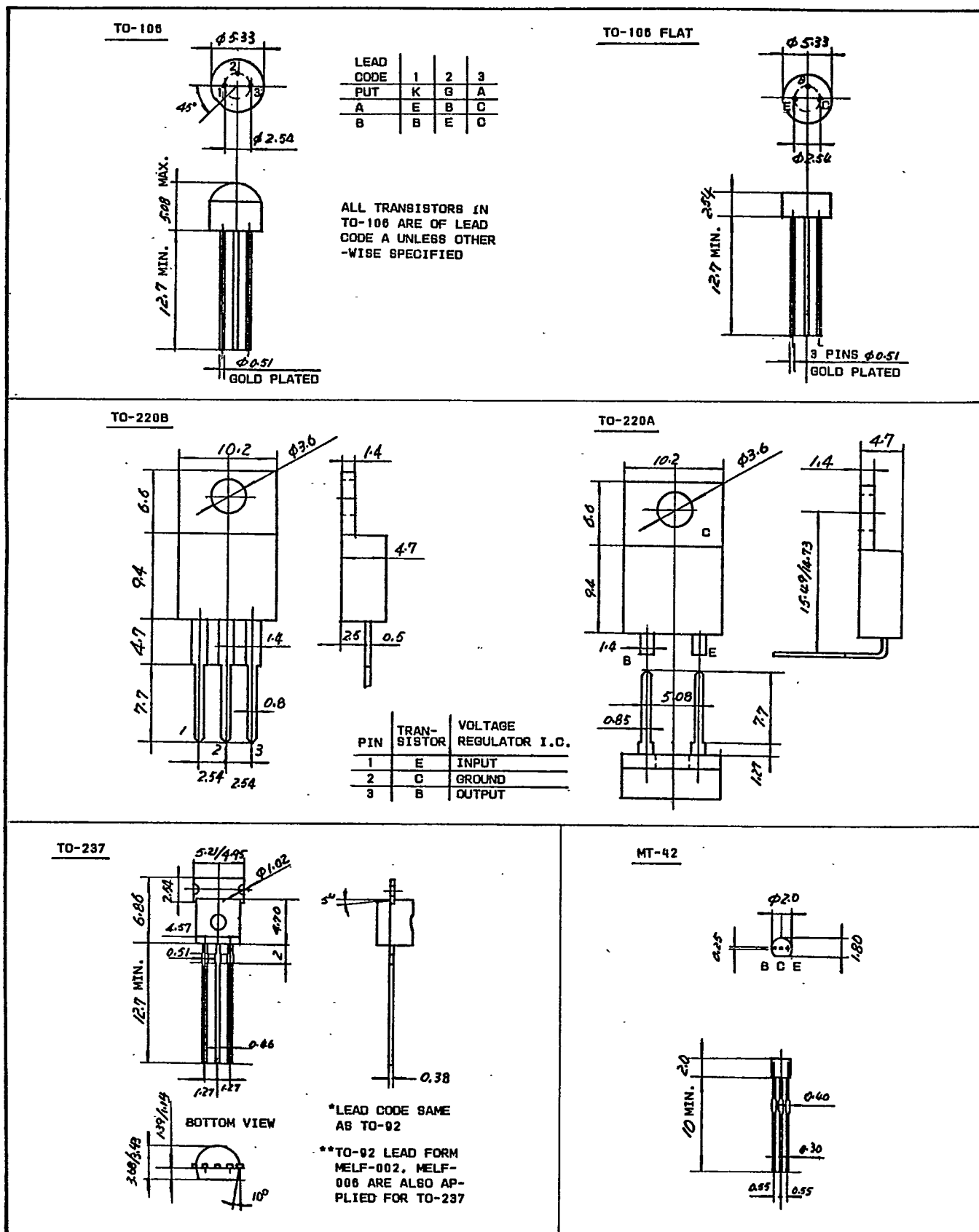
BOTTOM VIEW



BOTTOM VIEW

ALL DIMENSIONS IN mm

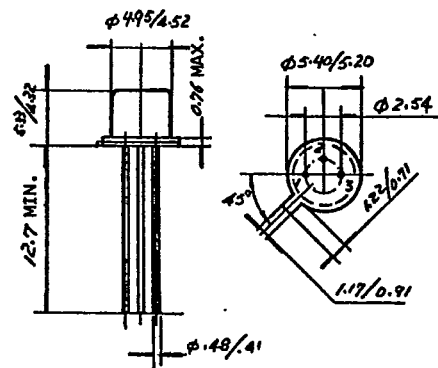
Mechanical Outlines



ALL DIMENSIONS IN mm

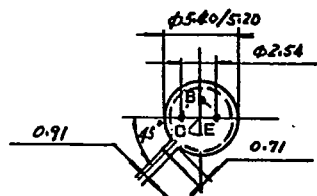
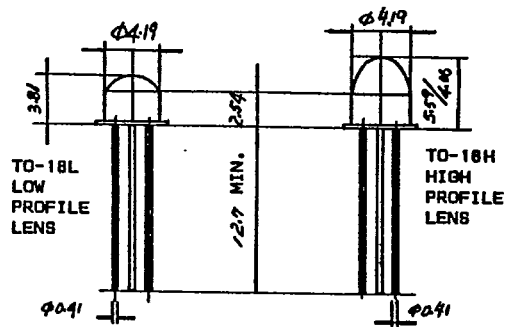
Mechanical Outlines

TO-18

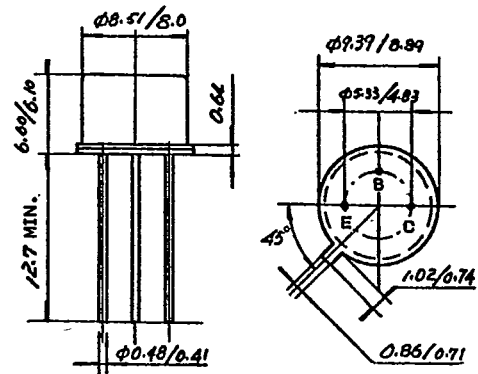


LEAD CODE	1	2	3
TRANSISTOR	E	B	C
FET	B	D	G

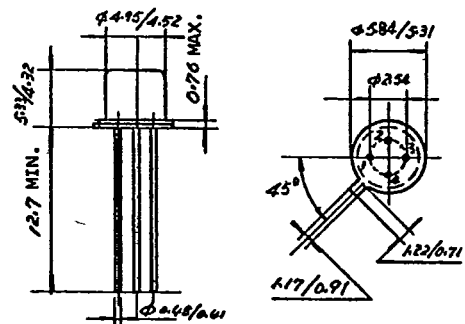
TO-18 PHOTO TRANSISTOR



TO-30

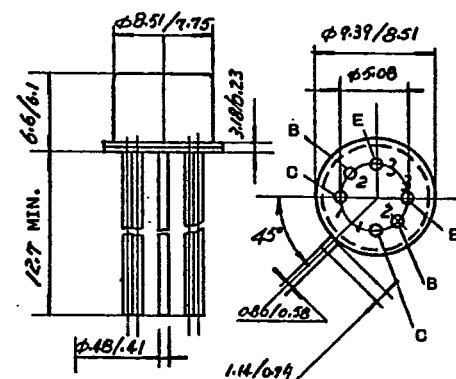


TO-72



LEAD CODE	1	2	3	4
SCS	K	GK	GA	A
J	B	E	C	CASE
G	E	B	C	CASE
DH	B	D	G	CASE

TO-78



ALL DIMENSIONS IN mm