

Medium Power Amplifiers and Switches

T-27-01

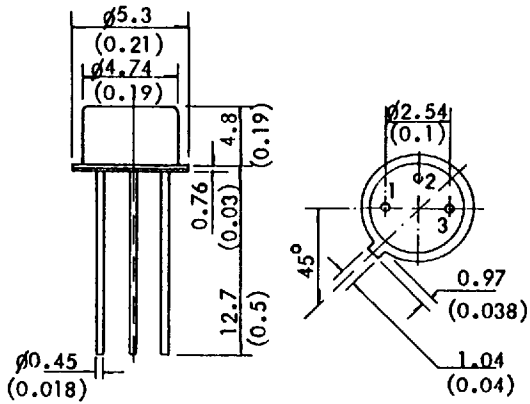
| TYPE NO. | POLARITY | CASE | MAXIMUM RATINGS | | | H _{FE} | | | | V _{CE(SAT)} | | f _T min (MHz) | Cob max (pF) | COMPLE- MENTARY TYPE |
|----------|----------|--------|------------------------|-----------------------|-------------------------|-----------------|-----|------------------------|------------------------|----------------------|-----------------------|--------------------------------|--------------------|----------------------------|
| | | | P _d (mW) | I _C (A) | V _{CEO} (V) | min | max | I _C (mA) | V _{CE} (V) | max (V) | I _C (A) | | | |
| 2N3073 | P | TO-18 | 360 | 0.5 | 60 | 30 | 130 | 50 | 1 | 1 | 0.3 | 130 | 10 | — |
| 2N3081 | P | TO-39 | 600 | 0.6 | 50 | 30 | 90 | 150 | 10 | 0.3 | 0.15 | 150 | 13 | — |
| 2N3107 | N | TO-39 | 800 | 1 | 60 | 100 | 300 | 150 | 10 | 1 | 1 | 70 | 20 | 2N4032 |
| 2N3108 | N | TO-39 | 800 | 1 | 60 | 40 | 120 | 150 | 10 | 0.25 | 0.15 | 60 | 20 | 2N4030 |
| 2N3109 | N | TO-39 | 800 | 1 | 40 | 100 | 300 | 150 | 10 | 1 | 1 | 70 | 25 | 2N4033 |
| 2N3110 | N | TO-39 | 800 | 1 | 40 | 40 | 120 | 150 | 10 | 0.25 | 0.15 | 60 | 25 | — |
| 2N3115 | N | TO-18 | 400 | 0.6 | 20 | 40 | 120 | 150 | 10 | 0.5 | 0.15 | 250 | 8 | — |
| 2N3116 | N | TO-18 | 400 | 0.6 | 20 | 100 | 300 | 150 | 10 | 0.5 | 0.15 | 250 | 8 | — |
| 2N3120 | P | TO-39 | 800 | 0.5 | 45 | 30 | 130 | 50 | 1 | 1 | 0.5 | 130 | 10 | — |
| 2N3121 | P | TO-18 | 360 | 0.5 | 45 | 30 | 130 | 50 | 1 | 1 | 0.5 | 130 | 10 | — |
| 2N3133 | P | TO-39 | 600 | 0.6 | 35 | 40 | 120 | 150 | 10 | 0.6 | 0.15 | 200 | 10 | — |
| 2N3134 | P | TO-39 | 600 | 0.6 | 35 | 100 | 300 | 150 | 10 | 0.6 | 0.15 | 200 | 10 | — |
| 2N3135 | P | TO-18 | 400 | 0.6 | 35 | 40 | 120 | 150 | 10 | 0.6 | 0.15 | 200 | 10 | — |
| 2N3136 | P | TO-18 | 400 | 0.6 | 35 | 100 | 300 | 150 | 10 | 0.6 | 0.15 | 200 | 10 | — |
| 2N3299 | N | TO-39 | 800 | 0.5 | 30 | 40 | 120 | 150 | 10 | 0.6 | 0.5 | 250 | 8 | — |
| 2N3300 | N | TO-39 | 800 | 0.5 | 30 | 100 | 300 | 150 | 10 | 0.6 | 0.5 | 250 | 8 | — |
| 2N3301 | N | TO-18 | 360 | 0.5 | 30 | 40 | 120 | 150 | 10 | 0.6 | 0.5 | 250 | 8 | — |
| 2N3302 | N | TO-18 | 360 | 0.5 | 30 | 100 | 300 | 150 | 10 | 0.6 | 0.5 | 250 | 8 | — |
| 2N3326 | N | TO-39 | 800 | 0.8 | 45 | 40 | 120 | 150 | 10 | 0.6 | 0.5 | 250 | 8 | — |
| 2N3414 | N | TO-92B | 360 | 0.5 | 25 | 75 | 225 | 2 | 4.5 | 0.3 | 0.05 | — | — | — |
| 2N3415 | N | TO-92B | 360 | 0.5 | 25 | 180 | 540 | 2 | 4.5 | 0.3 | 0.05 | — | — | — |
| 2N3416 | N | TO-92B | 360 | 0.5 | 50 | 75 | 225 | 2 | 4.5 | 0.3 | 0.05 | — | — | — |
| 2N3417 | N | TO-92B | 360 | 0.5 | 50 | 180 | 540 | 2 | 4.5 | 0.3 | 0.05 | — | — | — |
| 2N3502 | P | TO-39 | 800 | 0.6 | 45 | 100 | 300 | 150 | 10 | 1 | 0.3 | 200 | 8 | — |
| 2N3503 | P | TO-39 | 800 | 0.6 | 60 | 100 | 300 | 150 | 10 | 1 | 0.3 | 200 | 8 | — |
| 2N3504 | P | TO-18 | 400 | 0.6 | 45 | 100 | 300 | 150 | 10 | 1 | 0.3 | 200 | 8 | — |
| 2N3505 | P | TO-18 | 400 | 0.6 | 60 | 100 | 300 | 150 | 10 | 1 | 0.3 | 200 | 8 | — |
| 2N3678 | N | TO-39 | 800 | 0.8 | 55 | 40 | 120 | 150 | 10 | 1 | 0.5 | 250 | 8 | — |
| 2N3700 | N | TO-18 | 500 | 1 | 80 | 100 | 300 | 150 | 10 | 0.5 | 0.5 | 100 | 12 | — |
| 2N3701 | N | TO-18 | 500 | 1 | 80 | 40 | 120 | 150 | 10 | 0.5 | 0.5 | 80 | 12 | — |
| 2N3702 | P | TO-92B | 360 | 0.2 | 25 | 60 | 300 | 50 | 5 | 0.25 | 0.05 | 100 | 12 | 2N3704 |
| 2N3703 | P | TO-92B | 360 | 0.2 | 30 | 30 | 150 | 50 | 5 | 0.25 | 0.05 | 100 | 12 | 2N3706 |
| 2N3704 | N | TO-92B | 360 | 0.2 | 30 | 100 | 300 | 50 | 2 | 0.6 | 0.1 | 100 | 12 | 2N3702 |
| 2N3705 | N | TO-92B | 360 | 0.2 | 30 | 50 | 150 | 50 | 2 | 0.8 | 0.1 | 100 | 12 | 2N3702 |
| 2N3706 | N | TO-92B | 360 | 0.2 | 20 | 30 | 600 | 50 | 2 | 1 | 0.1 | 100 | 12 | 2N3703 |
| 2N3793 | N | TO-92B | 250 | 0.5 | 20 | 20 | 120 | 10 | 10 | 0.4 | 0.01 | 100 | 10 | — |
| 2N3794 | N | TO-92B | 250 | 0.5 | 20 | 100 | 600 | 10 | 10 | 0.4 | 0.01 | 100 | 10 | — |
| 2N3945 | N | TO-39 | 5000▲ | 1 | 50 | 40 | 250 | 150 | 10 | 0.5 | 0.15 | 60 | 12 | — |
| 2N4029 | P | TO-18 | 500 | 1 | 80 | 100 | 300 | 100 | 5 | 0.5 | 0.5 | 150+ | 20 | — |
| 2N4030 | P | TO-39 | 800 | 1 | 60 | 40 | 120 | 100 | 5 | 0.5 | 0.5 | 100 | 20 | 2N3108 |
| 2N4031 | P | TO-39 | 800 | 1 | 80 | 40 | 120 | 100 | 5 | 0.5 | 0.5 | 100 | 20 | 2N3020 |
| 2N4032 | P | TO-39 | 800 | 1 | 60 | 100 | 300 | 100 | 5 | 0.5 | 0.5 | 150 | 20 | 2N3107 |
| 2N4033 | P | TO-39 | 800 | 1 | 80 | 100 | 300 | 100 | 5 | 0.5 | 0.5 | 150 | 20 | 2N3109 |
| 2N4036 | P | TO-39 | 1000 | 1 | 65 | 40 | 140 | 150 | 10 | 0.65 | 0.15 | 60 | 30 | 2N2102 |
| 2N4037 | P | TO-39 | 1000 | 1 | 40 | 50 | 250 | 150 | 10 | 1.4 | 0.15 | 60 | 30 | 2N3053 |
| 2N4140 | N | TO-106 | 300 | 0.2 | 30 | 40 | 120 | 150 | 10 | 0.4 | 0.15 | 250 | 8 | — |
| 2N4141 | N | TO-106 | 300 | 0.2 | 30 | 100 | 300 | 150 | 10 | 0.4 | 0.15 | 250 | 8 | — |
| 2N4242 | P | TO-106 | 300 | 0.2 | 40 | 40 | 120 | 150 | 10 | 0.4 | 0.15 | 200 | 8 | — |
| 2N4143 | P | TO-106 | 300 | 0.2 | 40 | 100 | 300 | 150 | 10 | 0.4 | 0.15 | 200 | 8 | — |
| 2N4227 | N | TO-106 | 300 | 0.2 | 30 | 75 | 150 | 150 | 10 | 0.4 | 0.15 | 250 | 8 | — |
| 2N4228 | P | TO-106 | 300 | 0.2 | 40 | 75 | 150 | 150 | 10 | 0.4 | 0.15 | 200 | 8 | — |
| 2N4234 | P | TO-39 | 1000 | 3 | 40 | 30 | 150 | 250 | 1 | 0.6 | 1 | 3 | 100 | 2N4237 |
| 2N4235 | P | TO-39 | 1000 | 3 | 60 | 30 | 150 | 250 | 1 | 0.6 | 1 | 3 | 100 | 2N4238 |
| 2N4236 | P | TO-39 | 1000 | 1 | 80 | 30 | 150 | 250 | 1 | 0.6 | 1 | 3 | 100 | 2N4239 |
| 2N4237 | N | TO-39 | 1000 | 1 | 40 | 30 | 150 | 250 | 1 | 0.6 | 1 | 2 | 100 | 2N4234 |

▲ T_c = 25°C

Mechanical Outlines

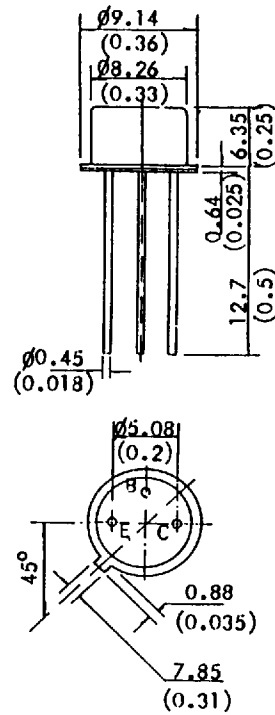
T-91-20

TO-18

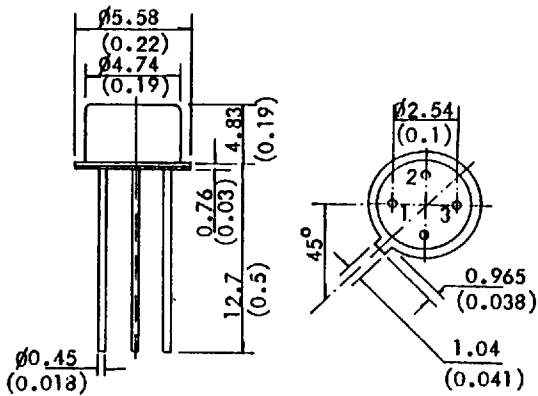


| | | | |
|------------|---|---|---|
| LEAD CODE | 1 | 2 | 3 |
| TRANSISTOR | E | B | C |
| FET | S | D | G |

TO-39

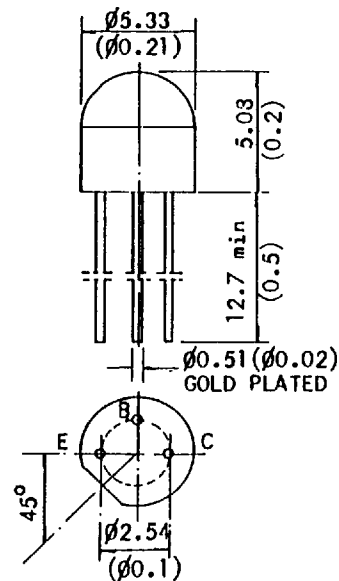


TO-72



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

TO-106



UNIT: mm (INCH)

Mechanical Outlines

T-91-20

TO-92

$\phi 4.68$
 $(\phi 0.18)$
 4.6
 (0.18)
 0.51
 (0.02)
 12.7 min
 (0.5)
 0.45
 (0.018)
 3.58
 (0.14)
 0.4
 (0.016)
 10°
 2.54
 (0.1)
 1.24
 (0.049)

| 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 | S | G | D |
| DB | S | D | G |
| DC | D | G | S |
| DD | D | S | G |
| DE* | G | S | D |
| DF* | G | D | S |

VOLTAGE REGULATOR

| | | | |
|-----|---|---|---|
| 78L | O | G | I |
| 79L | G | I | O |

BOTTOM VIEW

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

TO-92 LEAD FORM

MELF-001

3.3
 (0.13)
 12.7
 (0.5)
 1.27
 (0.05)
 2.54
 (0.1)
 0.45
 (0.018)

MELF-002

2.54
 (0.1)
 7.62
 (0.3)
 5.08
 (0.2)

MELF-003

2.03
 (0.08)
 4.25
 (0.17)
 1.27
 (0.05)
 2.54
 (0.1)
 0.45
 (0.018)

MELF-005

3.3
 (0.13)
 12.7
 (0.5)
 1.27
 (0.05)
 2.54
 (0.1)
 0.45
 (0.018)

MELF-006

2.54
 (0.1)
 7.62
 (0.3)
 5.08
 (0.2)

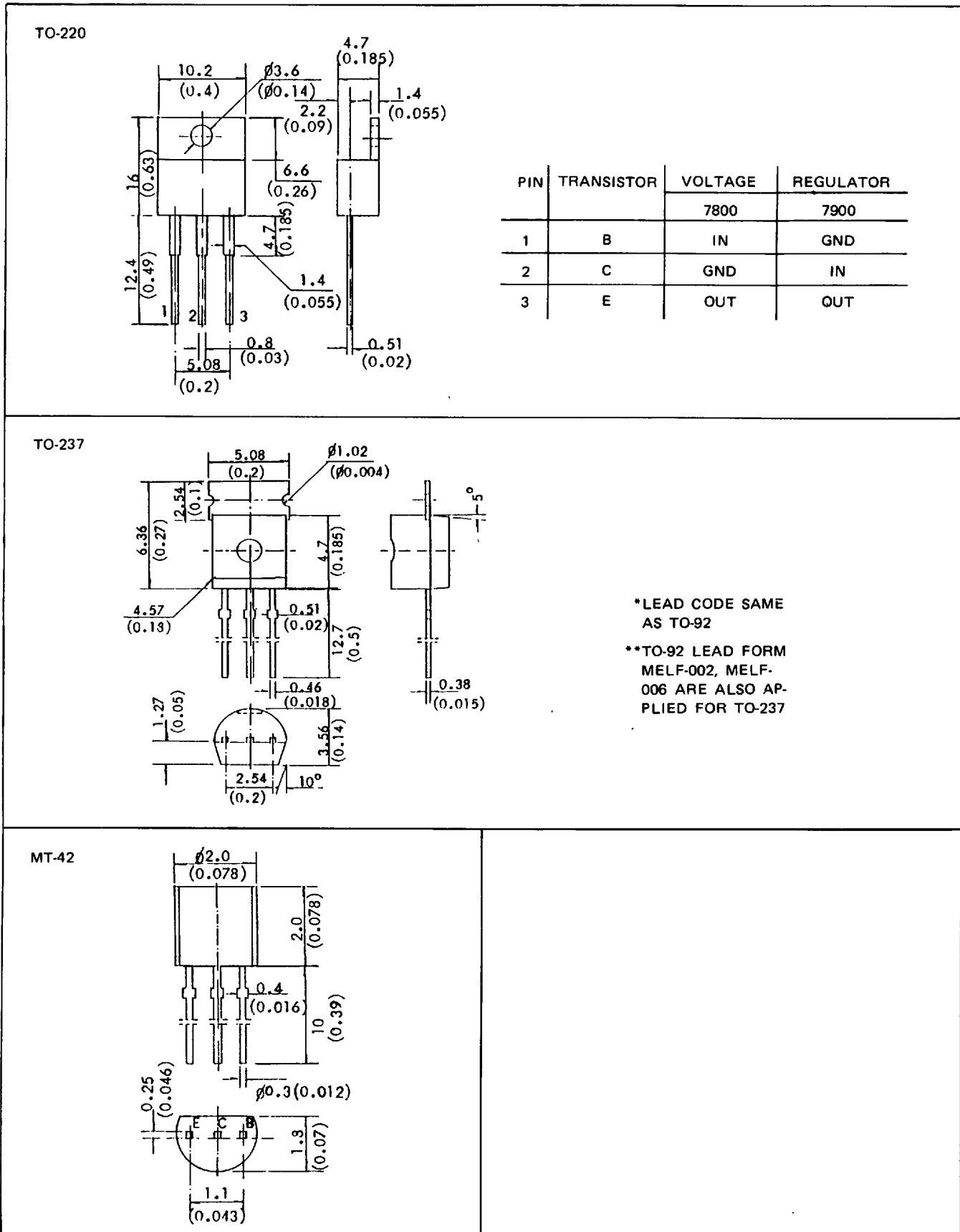
MELF-008

8.64
 (0.34)
 5.08
 (0.2)

UNIT: mm (INCH)

Mechanical Outlines

T-91-20



UNIT: mm (INCH)