

TO-92

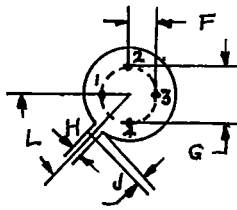
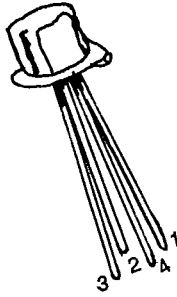
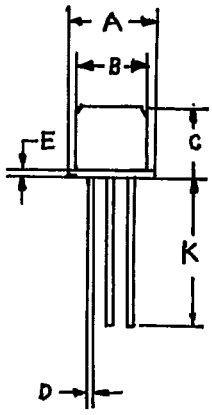
PLASTIC PACKAGE TRANSISTORS (PNP)

| Type No. | Maximum Ratings | | | Electrical Characteristics | | | | | | | | | | (Ta=25°C, Unless Otherwise Specified) | | | | CDIL Case Style |
|----------|-----------------------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---|---|---------------------|---|---------------------------------|-----------------------------|------------------------------|---------------------------------------|-----------------------------|---------|--|-----------------|
| | V _{CB0} (V) Min | V _{CEO} (V) Min | V _{EBO} (V) Min | I _{CBO} (μA) Max | V _{CB} (V) | h _{FE} @ Min Max | I _C & V _{CE} (mA) (V) | V _{CE(Sat)} & V _{BE(Sat)} (V) (V) | I _C (mA) | I _{CES} @ V _{CE} (μA) (V) | C _{ob} (pF) Min Max | f _T @ (MHz) (mA) | t _{off} (ns) Max | NF @ Freq (dB) (MHz) | C _{ie} (pF) Max | | | |
| BC307B | 50 | 45 | | | | 200 460 | 2.00 5.0 | 0.30 | 10 | .015 50 | 6.0 | | | 10.0 0.001 | | TO-92-4 | | |
| BC327 | 50 | 45 | 5 | 0.100 | 30 | 40 300.00 100 630 | 1.0 1.0 | 0.70 | 500 | .100 45 | 4.0 | 10 | 4.0 | | | TO-92-4 | | |
| BC327-10 | 50 | 45 | 5 | 0.100 | 45 | 40 300.00 63 160 | 1.0 1.0 | 0.70 | 500 | .100 45 | | 10 | 4.0 | | | TO-92-4 | | |
| BC327-16 | 50 | 45 | 5 | 0.100 | 30 | 40 250 300.00 100 250 100.00 | 1.0 1.0 | 0.70 1.20 0.70 1.20 | 500 300 | .100 45 | | 10 | | | | TO-92-4 | | |
| BC327-25 | 50 | 45 | 5 | 0.100 | 30 | 40 400 300.00 160 400 100.00 | 1.0 1.0 | 0.70 1.20 0.70 1.20 | 500 300 | .100 45 | | 10 | | | | TO-92-4 | | |
| BC327-40 | 50 | 45 | 5 | 0.100 | 30 | 250 600 100.00 40 500.00 | 1.0 1.0 | 0.70 | 500 | .100 45 | | 10 | | | | TO-92-4 | | |
| BC557 | 50 | 45 | 5 | | | 120 800 | 2.00 5.0 | 0.30 0.65 | 10 100 | .100 20 | 6.0 | 150 | 10 | 10.0 0.001 | | TO-92-4 | | |
| BC557A | 50 | 45 | 5 | | | 120 220 | 2.00 5.0 | 0.30 0.65 | 10 100 | .100 20 | 6.0 | 150 | 10 | 10.0 0.001 | | TO-92-4 | | |
| BC557B | 50 | 45 | 5 | | | 180 400 | 2.00 5.0 | 0.30 0.65 | 10 100 | .100 20 | 6.0 | 150 | 10 | 10.0 0.001 | | TO-92-4 | | |
| BC557C | 50 | 45 | 5 | | | 420 800 | 2.00 5.0 | 0.30 0.65 | 10 100 | .100 20 | 6.0 | 150 | 10 | 10.0 0.001 | | TO-92-4 | | |
| BC560 | 50 | 45 | 5 | 0.150 | 30 | 125 800 | 2.00 5.0 | 0.30 0.65 | 10 100 | | 6.0 | 150 | 10 | 4.0 0.001 | | TO-92-4 | | |
| BC560A | 50 | 45 | 5 | 0.150 | 30 | 125 250 | 2.00 5.0 | 0.30 0.65 | 10 100 | | 6.0 | 150 | 10 | 4.0 0.001 | | TO-92-4 | | |
| BC560B | 50 | 45 | 5 | 0.150 | 30 | 220 475 100 | 2.00 5.0 0.01 5.0 | 0.30 0.65 | 10 100 | | 6.0 | 150 | 10 | 4.0 0.001 | | TO-92-4 | | |
| BC560C | 50 | 45 | 5 | 0.150 | 30 | 420 800 100 | 2.00 5.0 0.01 5.0 | 0.30 0.65 | 10 100 | | 6.0 | 150 | 10 | 4.0 0.001 | | TO-92-4 | | |
| BC636 | 45 | 45 | 5 | 0.100 | 30 | 25 5.00 40 250 150.00 25 500.00 | 2.0 2.0 2.0 | 0.50 | 500 | | | 50 | 10 | | | TO-92-1 | | |
| BCX79 | 45 | 45 | 5 | | | 80 1000 40 100.00 120 630 20 0.01 | 10.00 1.0 1.0 5.0 5.0 | 0.60 1.00 | 100 | .010 45 | 4.5 | | | 6.0 0.001 | | TO-92-4 | | |
| BCX79-7 | 45 | 45 | 5 | | | 120 220 80 10.00 40 100.00 20 0.01 | 2.00 5.0 1.0 1.0 1.0 5.0 | 0.60 1.00 | 100 | .010 45 | 4.5 | | | 6.0 0.001 | | TO-92-4 | | |

PACKAGE TO — 72

PIN CONFIGURATION AVAILABLE IN TO — 72

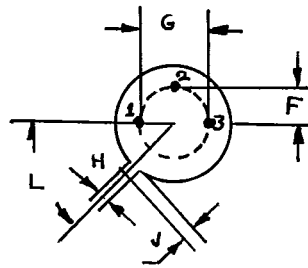
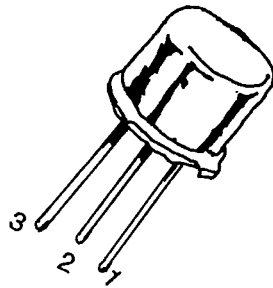
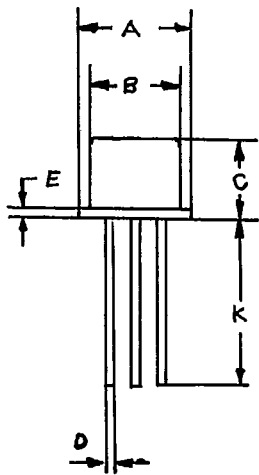
| CDIL CODE STYLE | PIN-1 | PIN-2 | PIN-3 | PIN-4 |
|-----------------|---------|---------|-----------|-------|
| TO-72 | EMITTER | BASE | COLLECTOR | CASE |
| TO-72-1 | BASE | EMITTER | COLLECTOR | CASE |
| TO-72-2 | SOURCE | DRAIN | GATE | CASE |



| DIM. | MIN | MAX |
|------|---------|---------|
| A | 5,24 | 5,84 |
| B | 4,52 | 4,95 |
| C | 4,31 | 5,33 |
| D | 0,40 | 0,53 |
| E | — | 0,76 |
| F | 1,14 | 1,39 |
| G | 2,28 | 2,97 |
| H | 0,91 | 1,17 |
| J | 0,71 | 1,22 |
| K | 12,7 | — |
| L | 12 DEG. | 48 DEG. |

ALL DIMENSIONS IN M.M.

PACKAGE TO — 39



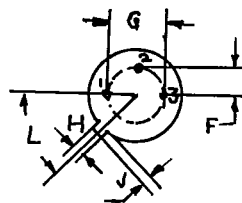
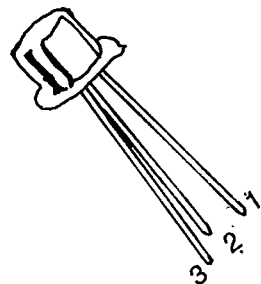
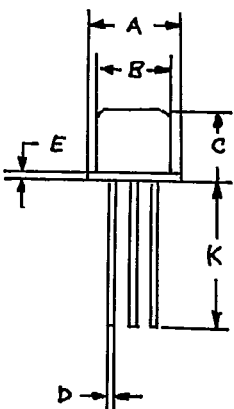
PIN CONFIGURATION:—

1. EMITTER
2. BASE
3. COLLECTOR

| DIM. | MIN | MAX |
|------|---------|---------|
| A | 8,50 | 9,39 |
| B | 7,74 | 8,50 |
| C | 6,09 | 6,60 |
| D | 0,40 | 0,53 |
| E | — | 0,88 |
| F | 2,41 | 2,66 |
| G | 4,82 | 5,33 |
| H | 0,71 | 0,86 |
| J | 0,73 | 1,02 |
| K | 12,7 | — |
| L | 42 DEG. | 48 DEG. |

ALL DIMENSIONS IN M.M.

PACKAGE TO — 18



PIN CONFIGURATION:—

1. EMITTER
2. BASE
3. COLLECTOR

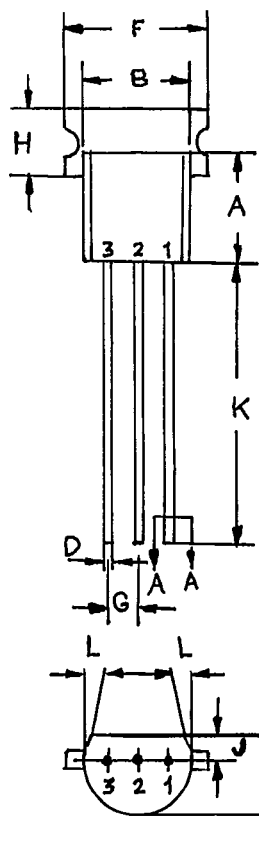
| DIM. | MIN | MAX |
|------|---------|------|
| A | 5,24 | 5,84 |
| B | 4,52 | 4,97 |
| C | 4,31 | 5,33 |
| D | 0,40 | 0,53 |
| E | — | 0,76 |
| F | — | 1,27 |
| G | — | 2,97 |
| H | 0,91 | 1,17 |
| J | 0,71 | 1,21 |
| K | 12,7 | — |
| L | 45 DEG. | |

ALL DIMENSIONS IN M.M.

CDIL 373 0000153 2383394 D 63E

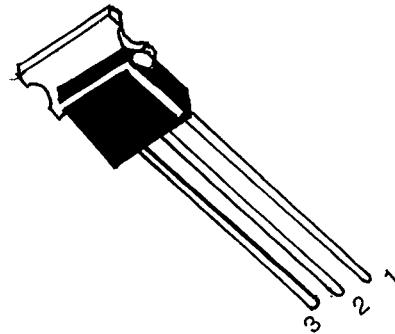
INDIA DEVICE CONTINENTAL

PACKAGE TO — 237



| DIM. | MIN | MAX |
|------|--------|------|
| A | 4,32 | 5,33 |
| B | 4,45 | 5,20 |
| C | 3,18 | 4,19 |
| D | 0,41 | 0,55 |
| E | 0,35 | 0,50 |
| F | — | 0,55 |
| G | 1,14 | 1,40 |
| H | — | 2,54 |
| K | 12,70 | — |
| L | 5 DEG. | |

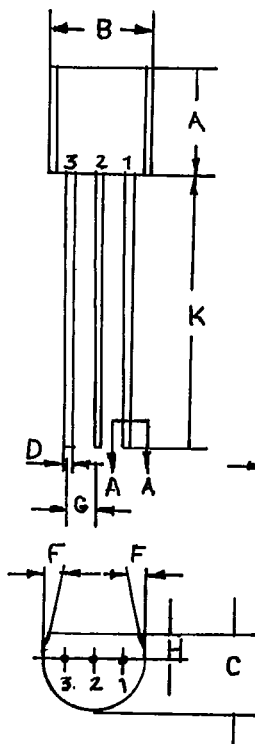
ALL DIMENSIONS IN M.M.



PIN CONFIGURATION AVAILABLE IN TO — 237

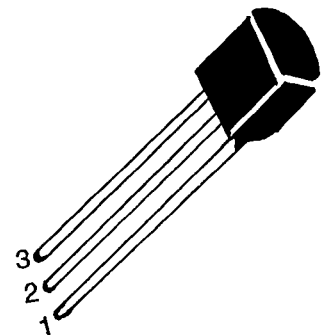
| CDIL CODE STYLE | PIN 1 | PIN 2 | PIN 3 |
|-----------------|-----------|-----------|-----------|
| TO—237 | EMITTER | BASE | COLLECTOR |
| TO—237—1 | BASE | COLLECTOR | EMITTER |
| TO—237—2 | COLLECTOR | BASE | EMITTER |

PACKAGE TO — 92



| DIM. | MIN | MAX |
|------|--------|------|
| A | 4,32 | 5,33 |
| B | 4,45 | 5,20 |
| C | 3,18 | 4,19 |
| D | 0,41 | 0,55 |
| E | 0,35 | 0,50 |
| F | 5 DEG. | |
| G | 1,14 | 1,40 |
| H | 1,14 | 1,53 |
| K | 12,70 | — |

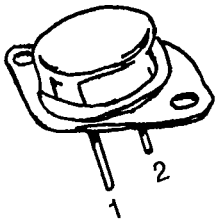
ALL DIMENSIONS IN M.M.



PIN CONFIGURATION AVAILABLE IN TO — 92

| CDIL CODE STYLE | PIN 1 | PIN 2 | PIN 3 |
|-----------------|-----------|-----------|-----------|
| TO—92 | COLLECTOR | BASE | EMITTER |
| TO—92—1 | BASE | COLLECTOR | EMITTER |
| TO—92—2 | BASE | EMITTER | COLLECTOR |
| TO—92—3 | COLLECTOR | EMITTER | BASE |
| TO—92—4 | EMITTER | BASE | COLLECTOR |

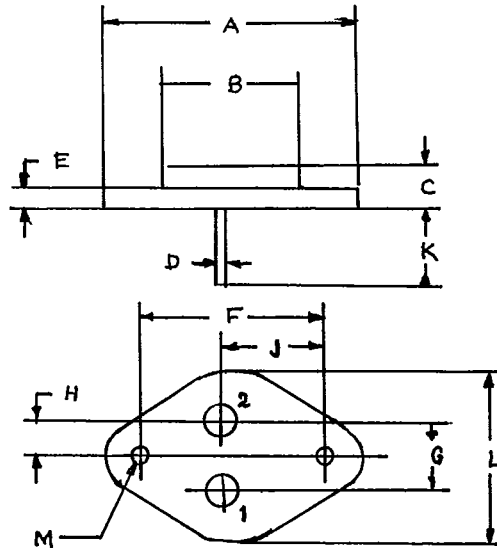
114



PIN CONFIGURATION:—

1. BASE
2. EMITTER
3. BODY COLLECTOR

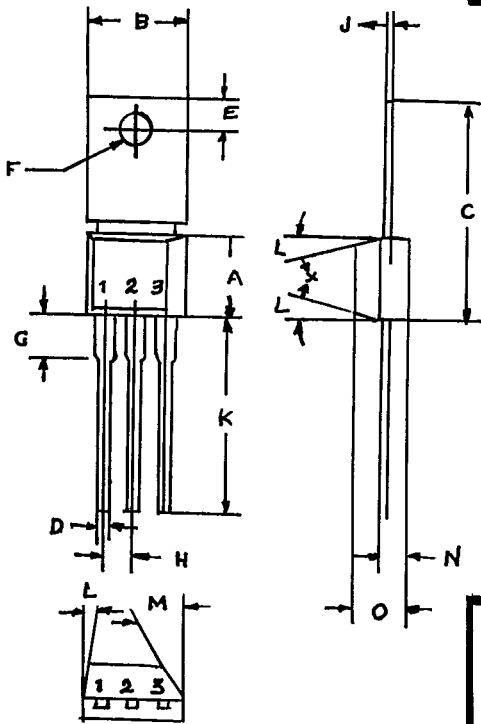
PACKAGE TO — 3



ALL DIMENSIONS ARE IN M.M.

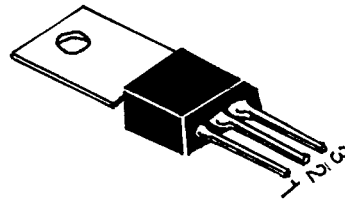
| DIM. | MIN | MAX |
|------|-------|-------|
| A | — | 39,37 |
| B | — | 22,22 |
| C | 6,35 | 8,50 |
| D | 0,96 | 1,09 |
| E | — | 1,77 |
| F | 29,90 | 30,4 |
| G | 10,69 | 11,18 |
| H | 5,20 | 5,72 |
| J | 16,64 | 17,15 |
| K | 11,15 | 12,25 |
| L | — | 26,67 |
| M | 3,84 | 4,19 |

PACKAGE TO — 202



PIN CONFIGURATION:—

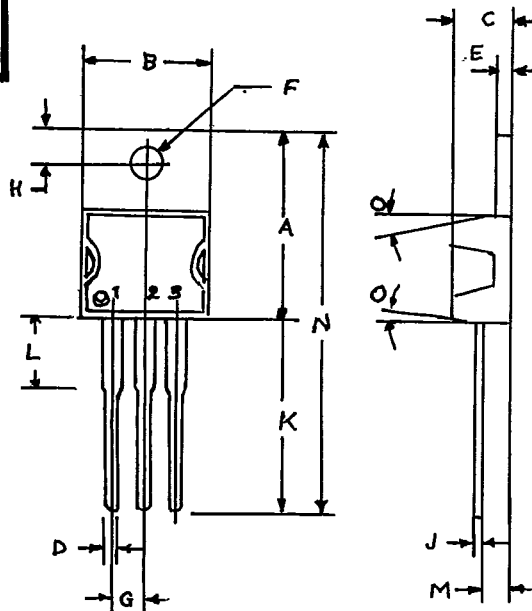
1. EMITTER
2. COLLECTOR
3. BASE



ALL DIMENSIONS IN M.M.

| DIM. | MIN | MAX |
|------|---------|-------|
| A | — | 8,60 |
| B | — | 10,41 |
| C | 19,30 | 21,80 |
| D | 0,60 | 0,80 |
| E | 2,80 | 3,80 |
| F | 3,12 | 3,35 |
| G | 1,27 | 2,54 |
| H | 2,41 | 2,54 |
| J | 0,40 | 0,66 |
| K | 9,65 | 12,20 |
| L | 5 DEG. | |
| M | 45 DEG. | |
| N | 0,92 | 1,78 |
| O | 3,30 | 4,83 |

PACKAGE TO — 220

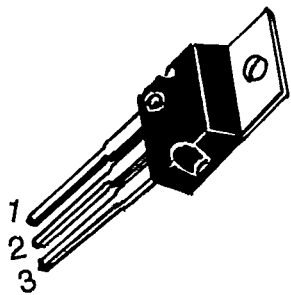


ALL DIMENSIONS IN M.M.

| DIM. | MIN | MAX |
|------|------------|-------|
| A | 14,22 | 16,51 |
| B | 9,63 | 10,67 |
| C | 3,56 | 4,83 |
| D | — | 0,90 |
| E | 1,15 | 1,40 |
| F | 3,75 | 3,85 |
| G | 2,29 | 2,79 |
| H | 2,54 | 3,43 |
| J | — | 0,56 |
| K | 12,70 | 14,73 |
| L | — | 6,35 |
| M | 2,03 | 2,92 |
| N | — | 31,24 |
| O | 7 1/2 DEG. | |

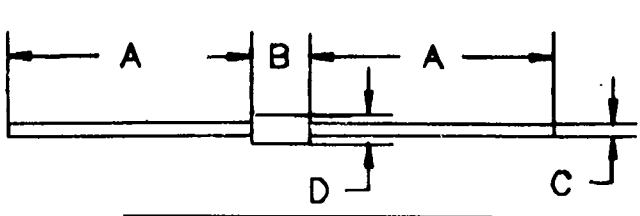
PIN CONFIGURATION:—

1. BASE
2. COLLECTOR
3. EMITTER



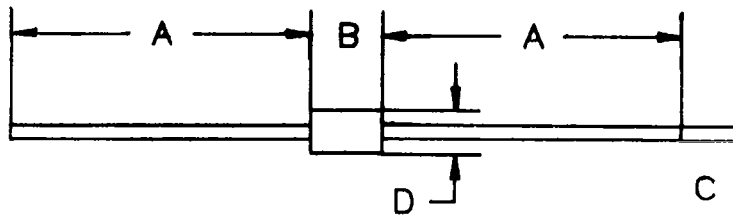
115

CONTINENTAL DEVICE INDIA 63E D 2383394 0000156 082 CDIL



| DIM. | MIN | MAX |
|------|-------|------|
| A | 25,40 | — |
| B | 3,03 | 4,44 |
| C | 0,46 | 0,56 |
| D | 1,52 | 2,29 |

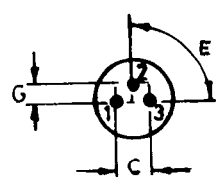
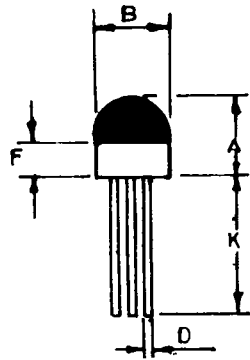
NOTES:—
1. CATHODE IS MARKED BY BAND.
2. ALL DIMENSIONS IN M.M.



| DIM. | MIN | MAX |
|------|-------|------|
| A | 27,90 | — |
| B | 4,06 | 5,51 |
| C | 0,71 | 0,87 |
| D | 2,03 | 2,72 |

NOTES:—
1. CATHODE IS MARKED BY BAND.
2. ALL DIMENSIONS IN M.M.

PACKAGE TO — 106

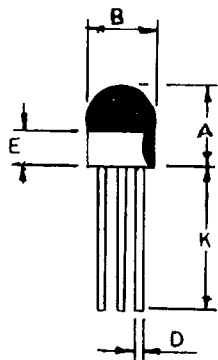


| DIM. | MIN | MAX |
|------|---------|------|
| A | — | 6,35 |
| B | — | 5,63 |
| C | 2,54 | |
| D | 0,40 | 0,55 |
| E | 90 DEG. | |
| F | 1,52 | — |
| G | 1,27 | |
| K | 10,16 | — |

ALL DIMENSIONS ARE IN M.M.

PIN CONFIGURATION:—
1. EMITTER 2. BASE
3. COLLECTOR

PACKAGE TO — 106

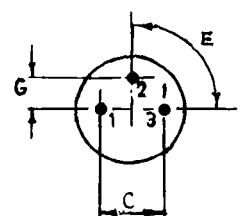
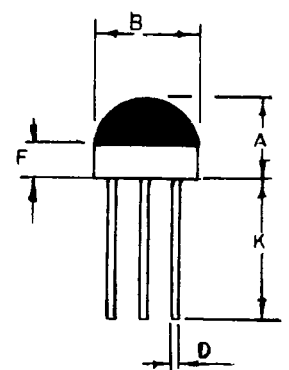


| DIM. | MIN | MAX |
|------|-------|------|
| A | — | 6,35 |
| B | — | 5,63 |
| C | 1,52 | |
| D | 0,40 | 0,55 |
| E | 1,52 | — |
| K | 10,16 | — |

ALL DIMENSIONS ARE IN M.M.

PIN CONFIGURATION:—
1. BASE 2. COLLECTOR
3. EMITTER

PACKAGE TO — 105



| DIM. | MIN | MAX |
|------|---------|------|
| A | — | 6,35 |
| B | — | 8,25 |
| C | 5,08 | |
| D | 0,40 | 0,55 |
| E | 90 DEG. | |
| F | 1,52 | — |
| G | 2,54 | |
| K | 10,16 | — |

ALL DIMENSIONS ARE IN M.M.

PIN CONFIGURATION:—
1. EMITTER 2. BASE
3. COLLECTOR

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