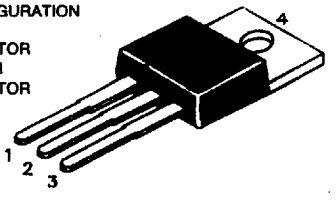
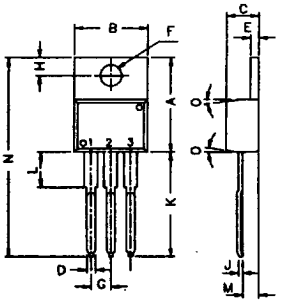
# CSD363 NPN PLASTIC POWER TRANSISTOR

B/W TV Horizontal Deflection Output

PIN CONFIGURATION
1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR




ALL DIMENSIONS ARE IN M.M.

| DIM | MIN | MAX |
|---|---|---|
| A | 14,42 | 16,51 |
| B | 9,63 | 10,67 |
| C | 3,56 | 4,83 |
| D | – | 0,90 |
| E | 1,15 | 1,40 |
| F | 3,75 | 3,88 |
| 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 DEG | |

**ABSOLUTE MAXIMUM RATINGS**

| | | | |
|---|---|---|---|
| Collector-base voltage (open emitter) | $V_{CBO}$ | max. | 300 V |
| Collector-emitter voltage (open base) | $V_{CEO}$ | max. | 120 V |
| Collector current | $I_C$ | max. | 6.0 A |
| Total power dissipation up to $T_C$ = 25°C | $P_{tot}$ | max. | 40 W |
| Junction temperature | $T_j$ | max. | 150 °C |
| Collector-emitter saturation voltage | | | |
| $I_C$ = 1A; $I_B$ = 0.1A | $V_{CEsat}$ | max. | 1.0 V |
| D.C. current gain | | | |
| $I_C$ = 1 A; $V_{CE}$ = 5 V | $h_{FE}$ | min | 40 |
| | | max. | 240 |

**RATINGS** (at $T_A$=25°C unless otherwise specified)

Limiting values

| | | | |
|---|---|---|---|
| Collector-base voltage (open emitter) | $V_{CBO}$ | max. | 300 V |
| Collector-emitter voltage (open base) | $V_{CEO}$ | max. | 120 V |
| Emitter-base voltage (open collector) | $V_{EBO}$ | max. | 8.0 V |
| Collector current | $I_C$ | max. | 6.0 A |

| | | | |
|---|---|---|---|
| Total power dissipation up to $T_C$ = 25°C | $P_{tot}$ | max. | 40 W |
| Junction temperature | $T_j$ | max. | 150 °C |
| Storage temperature | $T_{stg}$ | | −65 to +150 °C |

**CHARACTERISTICS**

$T_{amb}$ = 25°C unless otherwise specified

| | | | |
|---|---|---|---|
| Collector cutoff current | | | |
| $I_E$ = 0; $V_{CB}$ = 250V | $I_{CBO}$ | max. | 1.0 mA |
| Breakdown voltages | | | |
| $I_C$ = 20 mA; $I_B$ = 0 | $V_{CEO}$ | min. | 120 V |
| $I_C$ = 1 mA; $I_E$ = 0 | $V_{CBO}$ | min. | 300 V |
| $I_E$ = 1 mA; $I_C$ = 0 | $V_{EBO}$ | min. | 8.0 V |
| Saturation voltages | | | |
| $I_C$ = 1 A; $I_B$ = 0.1 A | $V_{CEsat}$ | max. | 1.0 V |
| | $V_{BEsat}$ | max. | 1.5 V |
| D.C. current gain | | | |
| $I_C$ = 1A; $V_{CE}$ = 5V** | $h_{FE}$ | min. | 40 |
| | | max. | 240 |
| Transition frequency | | | |
| $I_C$ = 0.5A; $V_{CE}$ = 5V | $f_T$ | typ. | 10 MHz |

****$h_{FE}$ classification: R: 40-80 O: 70-140 Y: 120-240**