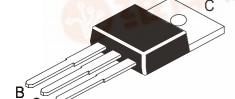
捷多邦,专业PCB打样工厂,24小时加急出货



#### NPN SILICON EPITAXIAL POWER TRANSISTOR

CSD73



TO - 220
Plastic Package

# Low Frequency High Power Amplifier

#### **ABSOLUTE MAXIMUM RATINGS**

| DESCRIPTION  | SYMBOL                     | VALUE       | TINU    |
|--|----------------------------|-------------|---------|
| Collector - Base Voltage                             | $V_{CBO}$                  | 100         | .DZSC.U |
| Collector - Base Voltage  Collector- Emitter Voltage | V <sub>CEO</sub>           | 60          | V       |
| Emitter- Base Voltage                                | V <sub>EBO</sub>           | 5           | V       |
| Collector Current                                    | Ic                         | 5           | А       |
| Collector Dissipation(Tc=25°C)                       | P <sub>C</sub> = G · G · G | 30          | W       |
| Operating & Storage Junction                         | $T_{j,\;Tstg}$             | -55 to +150 | °C      |
| Temperature Range                                    |                            |             |         |

#### ELECTRICAL CHARACTERISTICS (Tc=25°C unless specified otherwise)

| DESCRIPTION  | SYMBOL               | TEST CONDITION                             | MIN       | TYP  | MAX    | UNIT |
|--|----------------------|--|-----------|------|--------|------|
| Collector - Base Voltage                             | $V_{CBO}$            | $I_{C}=1$ mA, $I_{F}=0$                    | 100       | _    | _      | V    |
| Collector - Base Voltage  Collector- Emitter Voltage | VCEO                 | $I_C=20\text{mA}, I_B=0$                   | 60        | _    | -      | V    |
| Collector- Base Voltage                              | V <sub>EBO</sub>     | $I_E=1$ mA, $I_C=0$                        | 5         | -    | -      | V    |
| Collector Cut off Current                            | I <sub>CBO</sub>     | $V_{CB} = 100 V, I_{E} = 0$                | -         | -    | 5      | mA   |
| DC Current Gain                                      | h <sub>FE</sub>      | $I_C=1A$ , $V_{CE}=10V$                    | 70        | -    | 240    |      |
| Collector Emitter Saturation Voltage                 | $V_{CE(sat)}$        | $I_{C}=5A, I_{B}=0.5A$                     | -         | -    | 2.0    | V    |
| Base Emitter Saturation Voltage                      | V <sub>BE(sat)</sub> | $I_{C}=5A, I_{B}=0.5A$                     | - , , , , | -    | 1.5    | V    |
| Base Emitter on Voltage                              | $V_{BE}(on)$         | $I_C=1A$ , $V_{CE}=10V$                    | -117      | 0.75 | TO YEL | V    |
| Current Gain Bandwidth Product                       | $f_T$                | I <sub>C</sub> =0.3A, V <sub>CE</sub> =10V | - F       | 20   | OZSG.  | MHz  |
|  |                      |  |           |      |        |      |

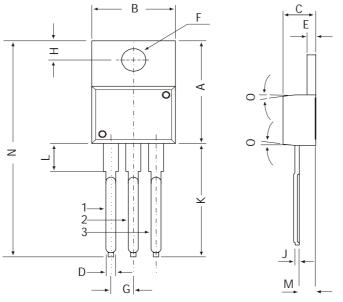
Classification O Y 120 - 240



## **CSD73**

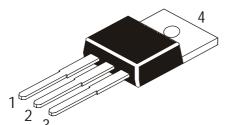
# TO - 220 Plastic Package

## **TO-220 Plastic Package**



| DIM | NAINI | MAX   |  |
|-----|-------|-------|--|
| DIM | MIN   | IVIAX |  |
| Α   | 14.42 | 16.51 |  |
| В   | 9.63  | 10.67 |  |
| С   | 3.56  | 4.83  |  |
| D   | _     | 0.90  |  |
| E   | 1.15  | 1.40  |  |
| F   | 3.75  | 3.88  |  |
| G   | 2.29  | 2.79  |  |
| Н   | 2.54  | 3.43  |  |
| J   | _     | 0.56  |  |
| K   | 12.70 | 14.73 |  |
| L   | 2.80  | 4.07  |  |
| М   | 2.03  | 2.92  |  |
| N   | _     | 31.24 |  |
| 0   | 7 DEG |       |  |

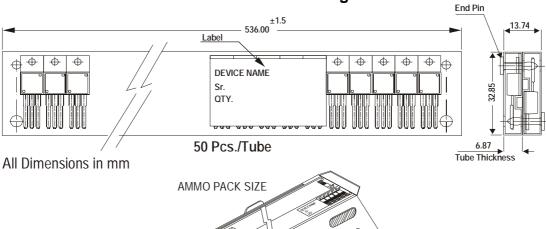
All diminsions in mm.

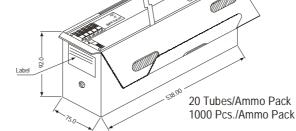


# Pin Configuration

- 1. Base
- 2. Collector
- 3. Emitter
- 4. Collector

# **TO-220 Tube Packing**





**Packing Detail** 

|         |                 |                | <u>*</u> /          |     |                   |     |        |
|---------|-----------------|----------------|---------------------|-----|-------------------|-----|--------|
| PACKAGE | STANDARD PACK   |                | INNER CARTON BOX    |     | OUTER CARTON BOX  |     |        |
|         | Details         | Net Weight/Qty | Size                | Qty | Size              | Qty | Gr Wt  |
| TO-220  | 200 pcs/polybag | 396 gm/200 pcs | 3" x 7.5" x 7.5"    | 1K  | 17" x 15" x 13.5" | 16K | 36 kgs |
|         | 50 pcs/tube     | 135 gm/50 pcs  | 3.5" x 3.7" x 21.5" | 1K  | 19" x 19" x 19"   | 10K | 28 kgs |

Notes CSD73

TO - 220 Plastic Package

#### **Disclaimer**

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