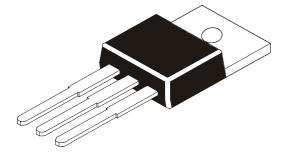


Continental Device India Limited An IS/ISO 9002 and IECQ Certified Manufacturer



PNP SILICON EPITAXIAL POWER TRANSISTOR

BD 240C (BPL) TO-220



Complementary Silicon transistor Intended For A Wide Variety Of Switching & Amplifier Applications, Series And Shunt Regulators, Driver And Output Stages of HI-FI Amplifiers

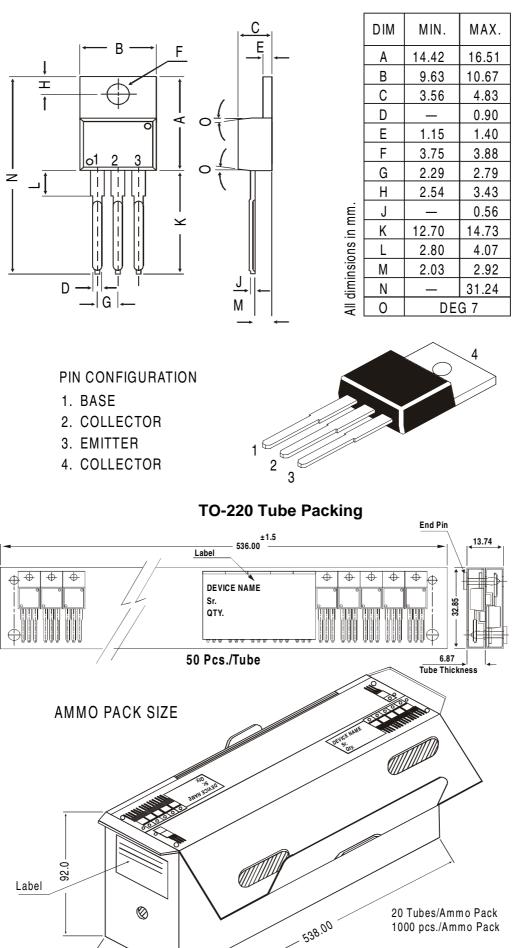
| DESCRIPTION | SYMBOL | VALUE | UNIT |
|---|----------|-------------------|----------|
| Collector -Base Voltage | VCBO | 115 | V |
| Collector -Emitter Voltage | VCEO | 100 | V |
| Emitter Base Voltage | VEBO | 5.0 | V |
| Collector Current Continuous | IC | 2.0 | А |
| Peak | ICM | 4.0 | А |
| Base Current | IB | 0.6 | А |
| Collector Power Dissipation @ Ta=25 deg C | PD | 2.0 | W |
| Derate Above 25 deg C | | 16 | mW/deg C |
| Collector Power Dissipation @ Tc=25 deg C | PD | 30 | W |
| Derate Above 25 deg C | | 240 | mW/deg C |
| Unclamped Inductive Load Energy (1) | E | 32 | mj |
| Junction Temperature | Tj | 1 <mark>50</mark> | deg C |
| Storage Temperature Range | Tstg | -65 to +150 | deg C |
| Thermal Resistance | | | |
| Junction to Ambient | Rth(j-a) | 62.5 | deg C/W |
| Junction to Case | Rth(j-c) | 4.17 | deg C/W |

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Specified)

| DESCRIPTION | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
|--------------------------------------|-----------|-----------------|-----|-----|-----|------|
| Collector Emitter (sus) Voltage | VCEO(sus) | * IC=30mA, IB=0 | 100 | - | - | V |
| Collector Cut off Current | ICEO | VCE=60V, IB=0 | - | - | 0.3 | mA |
| | ICES | VCE=100V, VBE=0 | - | - | 0.2 | mA |
| Emitter Cut off Current | IEBO | VBE=5V,IC=0 | - | - | 1.0 | mA |
| DC Current Gain | hFE* | IC=0.2A, VCE=4V | 40 | - | - | |
| | | IC=1A, VCE=4V | 15 | - | - | |
| Collector Emitter Saturation Voltage | VCE(Sat)* | IC=1A, IB=0.2A | - | - | 0.7 | V |
| Base Emitter on Voltage | VBE(on)* | IC=1A, VCE=4V | - | - | 1.3 | V |

| ELECTRICAL CHARACTERISTICS (Ta=25 deg | BD240C | | | | | |
|--|---------|----------------------------|-----|-----|-----|------|
| DESCRIPTION | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
| Dynamic Characteristics | | | | | | |
| Small Signal Current Gain | hfe | VCE=10V, IC=0.2A f=1kHz | 20 | | - | |
| Transition Frequency | ft | VCE=10V,IC=0.2A, f=1MHz | 3.0 | | - | MHz |
| *Pulse Condition: Pulse Width =300us, Duty C | ycle=2% | | | | | |

TO-220 Plastic Package



1000 pcs./Ammo Pack

75.0~

Packing Detail

| PACKAGE | STANDARD PACK | | INNER CARTON BOX | | OUTER CARTON BOX | | | |
|-------------|--------------------------------|----------------|---|--------------|--------------------------------------|----------------|------------------|--|
| | Details | Net Weight/Qty | Size | Qty | Size | Qty | Gr Wt | |
| T0-220 / FP | 200 pcs/polybag 50 pcs/tube | 5, 1 | 3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5" | 1.0K 1.0K | 17" x 15" x 13.5" 19" x 19" x 19" | 16.0K 10.0K | 36 kgs 29 kgs | |

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Data Sheet