

NPN SILICON PLANAR POWER TRANSISTOR

B^CC^CE

CSC2562

TO-220 Plastic Package

Complementary CSA1012

High Current Switching Applications

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

| DESCRIPTION | SYMBOL | VALUE | UNIT | |
|--|------------------|--------------|------|--|
| Collector Base Voltage | V _{CBO} | 60 | V | |
| Collector Emitter Voltage | V _{CEO} | 50 | V | |
| Emitter Base Voltage | V _{EBO} | 5 | V | |
| Collector Current | Ι _C | 5 | А | |
| Collector Power Dissipation T _c =25°C | P _c | 25 | W | |
| Junction Temperature | Tj | 150 | °C | |
| Storage Temperature Range | T _{stg} | - 55 to +150 | ٥C | |

ELECTRICAL CHARACTERISTICS (T_a=25°C Unless Specified Otherwise)

| DESCRIPTION | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
|--------------------------------------|----------------------|---|-----|-----|-----|------|
| Collector Cut Off Current | Сво | V _{CB} =50V, I _E =0 | | | 1.0 | μΑ |
| Emitter Cut Off Current | I _{EBO} | V _{EB} =5V, I _C =0 | | | 1.0 | μΑ |
| Collector Emitter Voltage | V _{CEO} | I _C =10mA, I _B =0 | 50 | | | V |
| DC Current Gain | *h _{FE} | I _C =1A, V _{CE} =1V | 70 | | 240 | |
| | h _{FE} | I _C =3A, V _{CE} =1V | 30 | | | |
| Collector Emitter Saturation Voltage | V _{CE(sat)} | I _C =3A, I _B =0.15A | | | 0.4 | V |
| Base Emitter Saturation Voltage | V _{BE(sat)} | I _C =3A, I _B =0.15A | | | 1.2 | V |
| Transition Frequency | f _T | I _C =1A, V _{CE} =4V | | 120 | | MHz |
| Collector Output Capacitance | C _{ob} | V_{CE} =10V, I _E =0, f=1MHz | | 80 | | pF |

SWITCHING TIME

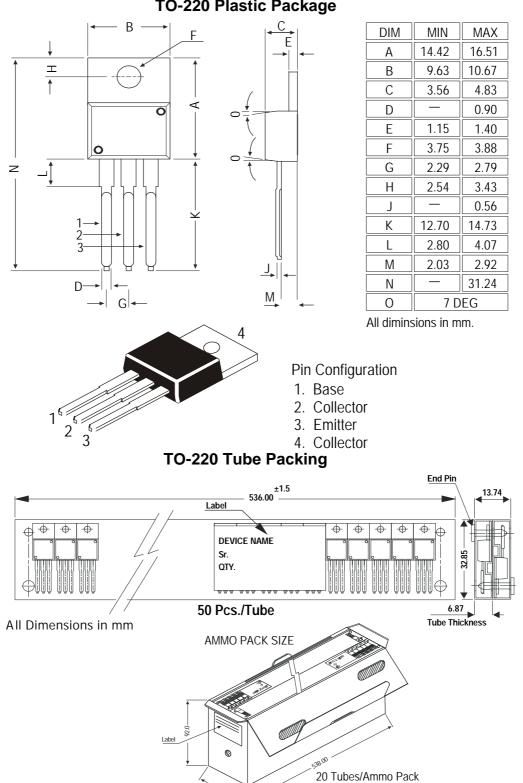
| Turn-On Time | t _{on} | V_{CC} =30V, I_{B1} = I_{B2} =0.15A, | 0.1 | μs |
|--------------|-----------------|--|-----|----|
| Storage Time | t _s | Duty Cycle <u><</u> 1% | 1.0 | μs |
| Fall Time | t _f | | 0.1 | μs |

*h_{FE} Classification

O: 70 - 140 Y: 120 - 240

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Packing Detail

| PACKAGE | STANDARD PACK | | INNER CARTON BOX | | OUTER CARTON BOX | | |
|------------|--------------------------------|---------------------------------|---|--------------|--------------------------------------|----------------|------------------|
| | Details | Net Weight/Qty | Size | Qty | Size | Qty | Gr Wt |
| TO-220 /FP | 200 pcs/polybag 50 pcs/tube | 396 gm/200 pcs 120 gm/50 pcs | 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 |

1000 Pcs./Ammo Pack

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Disclaimer

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CSC2562Rev280302E