

"BIG IDEAS IN BIG POWER"

PowerTech

200 AMPERES

PT-9504

SILICON NPN TRANSISTOR

FEATURES

$V_{ce(sat)}$ 0.75V at 200A h_{FE} ... 5 at 200A P_D 625 Watts
 V_{be} 2.0V at 200A t_f 3.0 usec $E_{s/b}$... 6.0 Joules

PowerTech's transistors offer high current capability, high breakdown voltage and the lowest available saturation voltage. They have exceptional resistance to both forward and reverse second breakdown. This unique combination of device characteristics makes them particularly suited for a wide variety of high current applications, which include series and switching regulators, motor controls, servoamplifiers and power control circuits. The transistors will provide outstanding performance when used as replacements for paralleled lower current devices, resulting in considerable reductions in weight, space, and circuit complexity. Their reliability is assured through 100% power testing at 20V, 20A, 100°C case temperature.

MAXIMUM RATINGS

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Peak Collector Current
D.C. Collector Current
Power Dissipation at 25°C
Power Dissipation at 100°C
Thermal Resistance
Operating Temperature Range
Storage Temperature Range

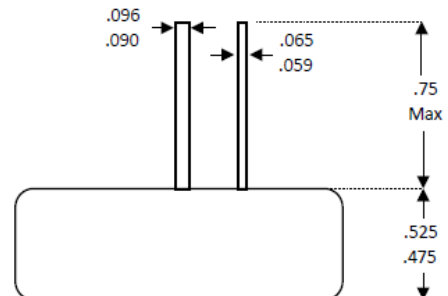
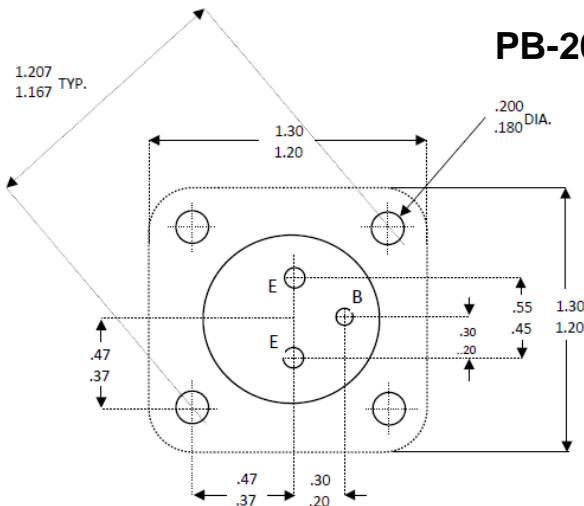
SYMBOL

V_{cbo}
 $V_{ceo(sus)}$
 V_{ebo}
 $I_{c(peak)}$
 I_c
 P_d
 P_d
 θ_{j-c}
 T_j
 T_a

PT-9504

200V
200V
10V
200A
100A
625W
400W
0.25°C/W
-65 to 200°C
-65 to 150°C

PB-200 PACKAGE



Note: Emitter and Base pin spacing is slightly larger when PT-9504 die is used in this package. Contact factory for actual pin spacing.