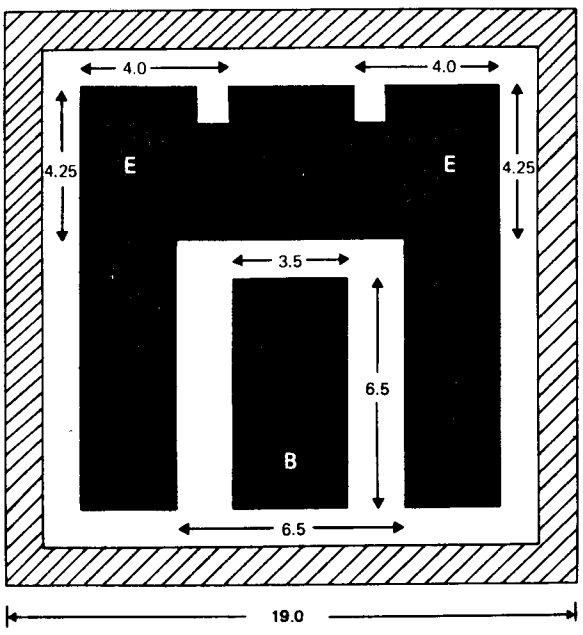
DIONICS INC.
65 RUSHMORE ST., WESTBURY, N.Y. 11590 516•997•7474

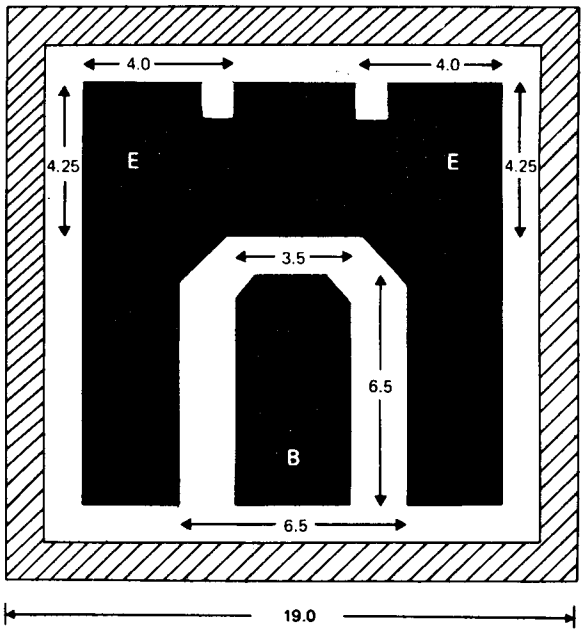
DP203 - DN203
DP204 - DN204
DP205 - DN205
DP206 - DN206

SILICON PNP AND NPN COMPLEMENTARY HIGH VOLTAGE TRANSISTOR CHIPS DESIGNED FOR HYBRID CIRCUIT APPLICATIONS.

NPN



PNP



DN203
DN204
DN205
DN206

DP203
DP204
DP205
DP206

Dimensions in Mils

Aluminum Oxide Silicon

- Chip Thickness=6 Mils ±1 Mil
- Min. Dimension Across Bonding Pads=3.5 Mils
- Min. Separation Between Bonding Pads=1.0 Mils
- Distance from Bonding Pads to Edge of Chips=2.5 Mils

Detailed Specifications on Reverse Side

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DP203 - DN203
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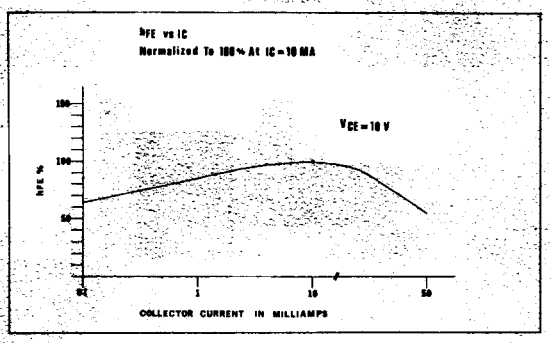
DP206 - DN206

SILICON
PNP AND NPN COMPLEMENTARY
HIGH VOLTAGE TRANSISTOR CHIPS
DESIGNED FOR HYBRID CIRCUIT APPLICATIONS.

APPLICATIONS: PLASMA AND GAS DISCHARGE DISPLAY DRIVERS, HIGH VOLTAGE, COMPLEMENTARY SYMMETRY AMPLIFIERS, AND SWITCHING CIRCUITRY.

ADVANTAGES: HIGH VOLTAGE • HIGH GAIN • LOW LEAKAGE CURRENTS • OVERSIZED BONDING PADS •

The high efficiency parallel emitter construction provides improved beta retention at high current levels. The large area bonding pads are positioned for maximum flexibility of substrate layout. Unique surface stabilization processing results in lower leakage currents and prevents the beta degradation frequently encountered during the extended high temperature assembly operations required for complex hybrid circuit construction. Chips are gold backed for eutectic die-attach, and have aluminum bonding pads for all conventional wire bonding techniques.



← 100% Probe Tested to These Parameters @ 25°C → ← Guaranteed → (tested on sample basis)

	h_{FE} @ I_C=10mA V_{CE}=10V	V_{CBO} Volts Min. @I_C= 10μA I_E=0	V_{CEO} Volts Min. @I_C= 1.0mA I_B=0	V_{EBO} Volts Min. @I_B= 10μA I_C=0	I_{CBO} nA Max. @V_{CB} as below I_E=0	V_{CE} (SAT.) Volts Max. @I_C=10mA I_B=1.0mA	C_{OB} pF Max. @V_{CB}=10V I_E=0 f=100KHz	f_t MHz Min. @ I_C=10mA V_{CE}=10V f=100MHz
DN203 DP203	40 MIN	200	200	5.0	100 @ 175V	5.0	8.0	50
DN204 DP204	40 MIN	175	175	5.0	100 @ 150V	5.0	8.0	50
DN205 DP205	40 MIN	150	150	5.0	100 @ 125V	5.0	8.0	50
DN206 DP206	40 MIN	125	125	5.0	100 @ 100V	5.0	8.0	50

Dimensional Drawing on Reverse Side