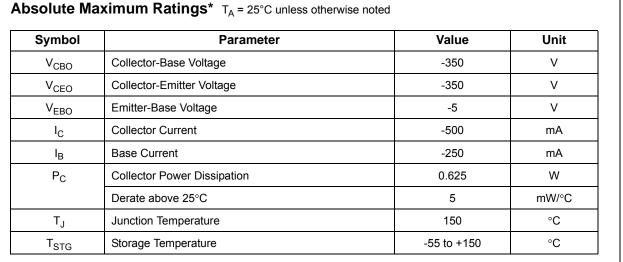
EAIRCHILD SEMICONDUCTOR® 2N6520

PNP Epitaxial Silicon Transistor

Features

- High Voltage Transistor
- Collector-Emitter Voltage: V_{CBO}= -350V
- Collector Dissipation: P_C (max)=625mW
- Complement to 2N6517



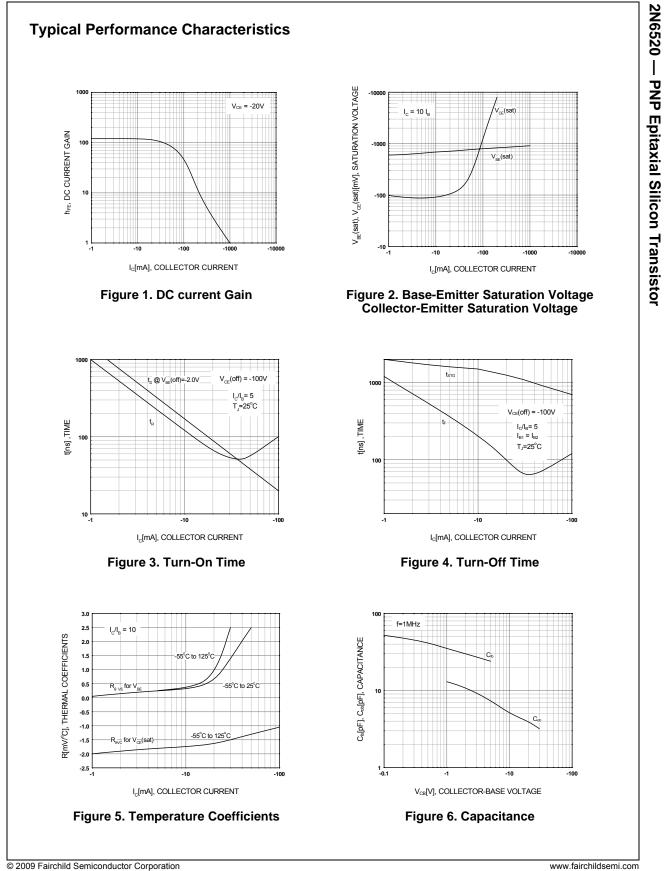


June 2009

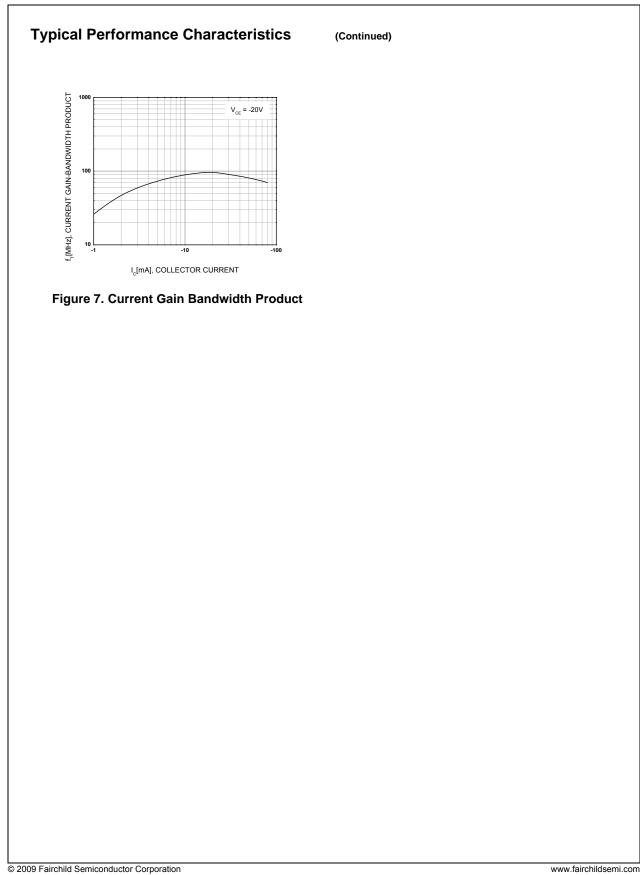
1 TO-92 1. Emitter 2. Base 3. Collector

| 2N6520 |
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| PNP |
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| istor |

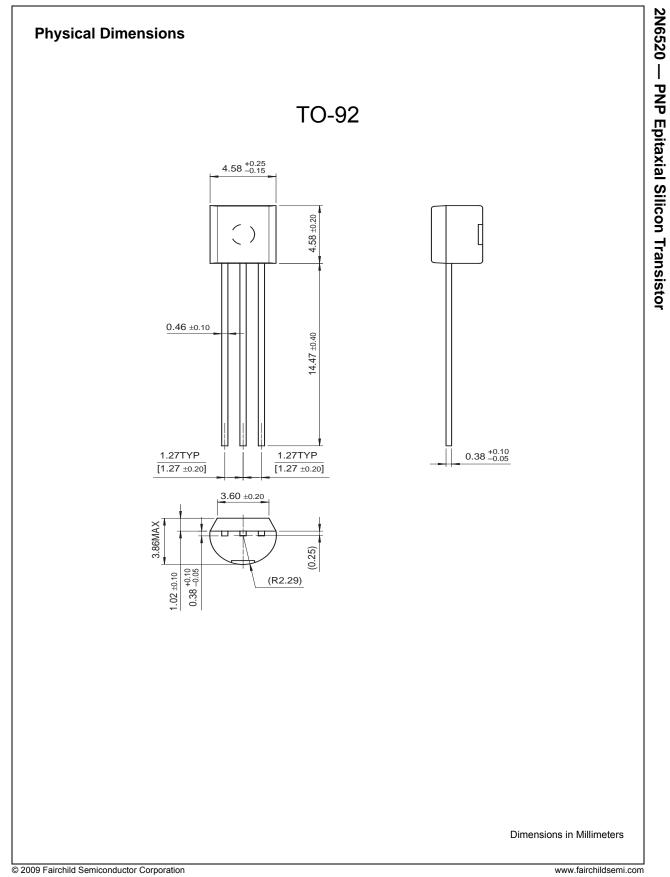
| Symbol | Parameter | Test Conditions | Min. | Max. | Units |
|-----------------------|---------------------------------------|--|----------------------------|-------------------------------|------------------|
| BV _{CBO} | Collector-Base Breakdown Voltage | I _C = -100μA, I _E =0 | -350 | | V |
| BV _{CEO} | * Collector-Emitter Breakdown Voltage | I _C = -1mA, I _B =0 | -350 | | V |
| BV_{EBO} | Emitter-Base Breakdown Voltage | I _E = -10μA, I _C =0 | -5 | | V |
| I _{CBO} | Collector Cut-off Current | V _{CB} = -250V, I _E =0 | | -50 | nA |
| I _{EBO} | Emitter Cut-off Current | V _{EB} = -4V, I _C =0 | | -50 | nA |
| h _{FE} | * DC Current Gain | V_{CE} = -10V, I_C = -1mA V_{CE} = -10V, I_C = -10mA V_{CE} = -10V, I_C = -30mA V_{CE} = -10V, I_C = -50mA V_{CE} = -10V, I_C = -100mA | 20 30 30 20 15 | 200 200 | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA I_{C} = -50mA, I_{B} = -5mA | | -0.30 -0.35 -0.50 -1 | V V V V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA | | -0.75 -0.85 -0.90 | V V V |
| V_{BE} (on) | Base-Emitter On Voltage | V _{CE} = -10V, I _C = -100mA | | -2 | V |
| f _T | * Current Gain Bandwidth Product | V _{CE} = -20V, I _C = -10mA, f=20MHz | 40 | 200 | MHz |
| C _{ob} | Output Capacitance | V _{CB} = -20V, I _E =0, f=1MHz | | 6 | pF |
| C _{EB} | Emitter-Base Capacitance | V _{EB} = -0.5V, I _C =0, f=1MHz | | 100 | pF |
| t _{ON} | Turn On Time | V _{BE} (off)= -2V, V _{CC} = -100V I _C = -50mA, I _{B1} = -10mA | | 200 | ns |
| t _{OFF} | Turn Off Time | V _{CC} = -100V, I _C = -50mA I _{B1} =I _{B2} = -10mA | | 3.5 | ns |



2N6520 Rev. B1



2N6520 — PNP Epitaxial Silicon Transistor



2N6520 Rev. B1

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|--------------------------|-----------------------|---|
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