

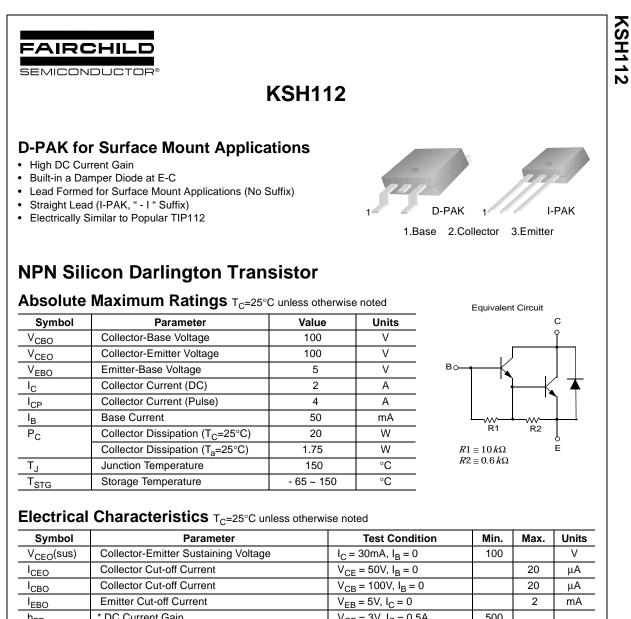
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# **ON Semiconductor**®

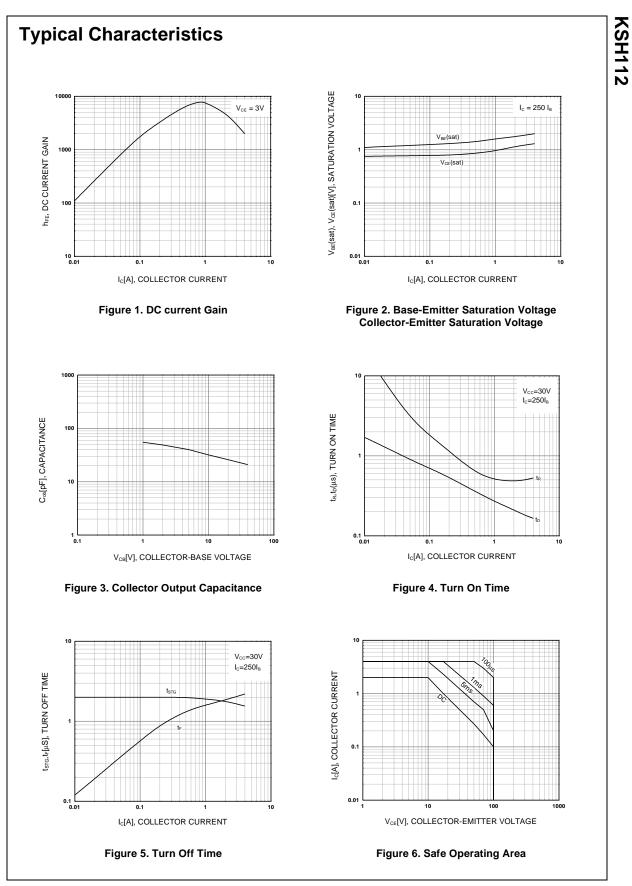
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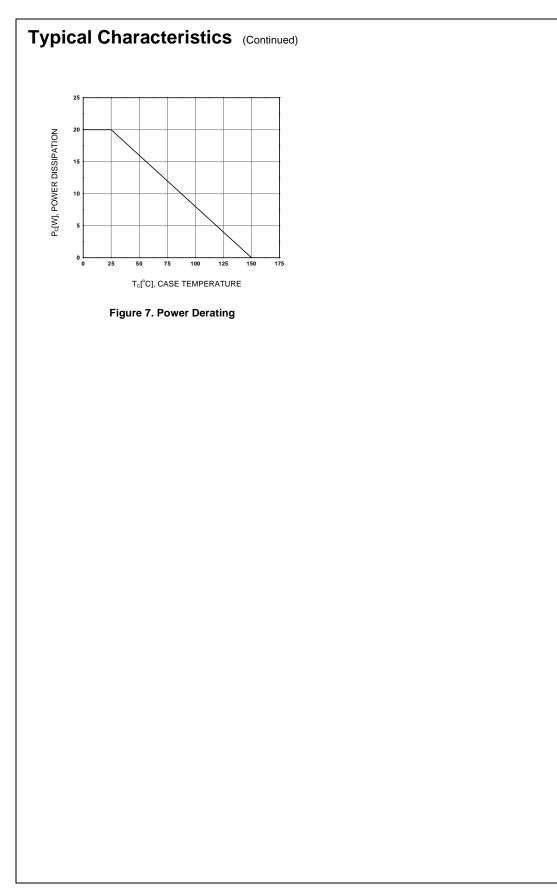


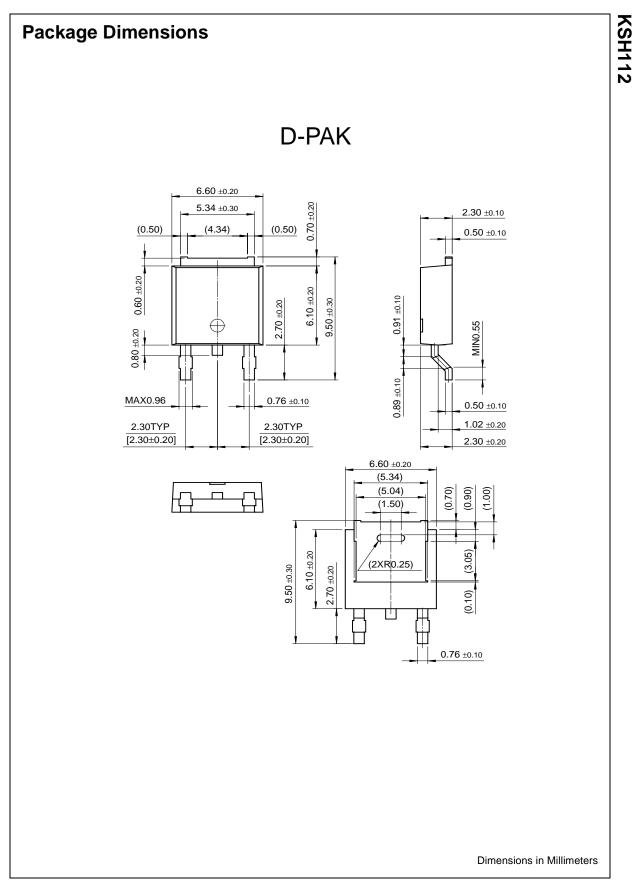
| Symbol                 | Parameter                              | lest Condition  | win.               | wax.   | Units  |
|------------------------|--|---|--------------------|--------|--------|
| V <sub>CEO</sub> (sus) | Collector-Emitter Sustaining Voltage   | $I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$  | 100                |        | V      |
| I <sub>CEO</sub>       | Collector Cut-off Current              | $V_{CE} = 50V, I_B = 0$   |                    | 20     | μΑ     |
| I <sub>CBO</sub>       | Collector Cut-off Current              | $V_{CB} = 100V, I_{B} = 0$  |                    | 20     | μΑ     |
| I <sub>EBO</sub>       | Emitter Cut-off Current                | $V_{EB} = 5V, I_{C} = 0$  |                    | 2      | mA     |
| h <sub>FE</sub>        | * DC Current Gain                      | $V_{CE} = 3V, I_C = 0.5A$<br>$V_{CE} = 3V, I_C = 2A$<br>$V_{CE} = 3V, I_C = 4A$ | 500<br>1000<br>200 | 12K    |        |
| V <sub>CE</sub> (sat)  | * Collector-Emitter Saturation Voltage | $I_{C} = 2A, I_{B} = 8mA$<br>$I_{C} = 4A, I_{B} = 40mA$                         |                    | 2<br>3 | V<br>V |
| V <sub>BE</sub> (sat)  | * Base-Emitter Saturation Voltage      | $I_{\rm C} = 4$ A, $I_{\rm B} = 40$ mA  |                    | 4      | V      |
| V <sub>BE</sub> (on)   | * Base-Emitter On Voltage              | $V_{CE} = 3A, I_{C} = 2A$   |                    | 2.8    | V      |
| f <sub>T</sub>         | Current Gain Bandwidth Product         | $V_{CE} = 10V, I_{C} = 0.75A$   | 25                 |        | MHz    |
| C <sub>ob</sub>        | Output Capacitance                     | $V_{CB} = 10V, I_E = 0$<br>f = 0.1MHz   |                    | 100    | pF     |

\* Pulse Test: PW≤300µs, Duty Cycle≤2%



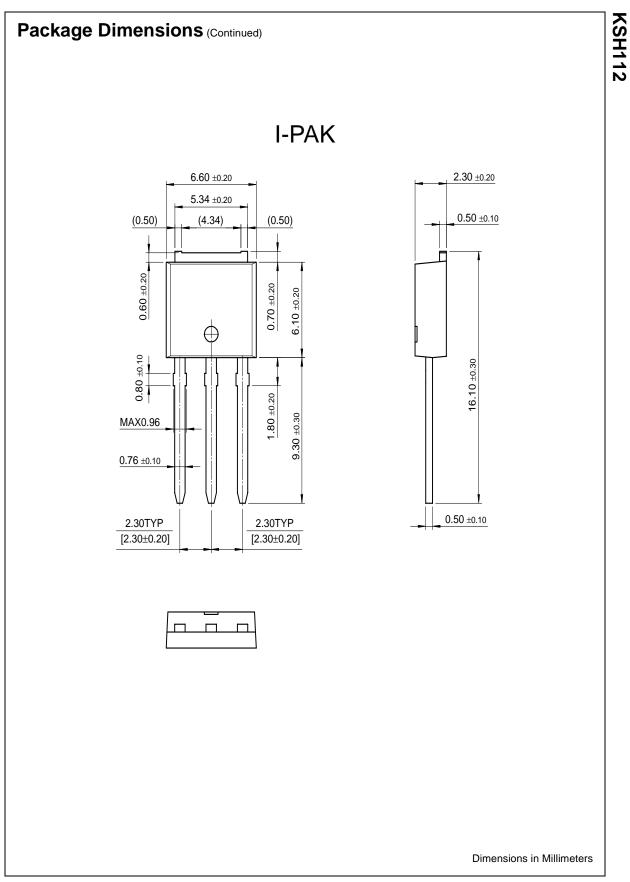
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