



# THE DATASHEET OF BSR31TA



**SOT89 PNP SILICON PLANAR  
MEDIUM POWER TRANSISTOR**  
**ISSUE 3 – FEBRUARY 1996**

COMPLEMENTARY TYPE – BSR31 – F  
BSR33 – F

PARTMARKING DETAILS – BSR31 – F  
BSR33 – F

**ABSOLUTE MAXIMUM RATINGS**

PARAMETER
Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Peak Pulse Current
Continuous Collector Current
Power Dissipation at $T_{amb} = 25^{\circ}C$
Operating and Storage Temperature Range



**ELECTRICAL CHARACTERISTICS**

PARAMETER	SYMBOL
Collector-Base Breakdown Voltage BSR31	$V_{(BR)CBO}$
Collector-Base Breakdown Voltage BSR33	$V_{(BR)CBO}$
Collector-Emitter Breakdown Voltage BSR31	$V_{(BR)CEO}$
Collector-Emitter Breakdown Voltage BSR33	$V_{(BR)CEO}$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$
Collector Cut-Off Current	$I_{CBO}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$
Static Forward Current Transfer Ratio	$h_{FE}$
Collector Capacitance	$C_c$
Emitter Capacitance	$C_e$
Transition Frequency	$f_T$
Turn-On Time	$T_{on}$
Turn-Off Time	$T_{off}$

\*Measured under pulsed conditions. Pulse Spice parameter data is available upon request.

## Looking for pricing, stock, or lifecycle information?

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-  Shortage Management
-  Alternative Solution
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