



# THE DATASHEET OF BST40TA



**SOT89 NPN SILICON PLANAR  
HIGH VOLTAGE TRANSISTOR**  
ISSUE 3 – JANUARY 1996 

COMPLEMENTARY TYPE – BST15

PARTMAKING DETAIL — AT2

**ABSOLUTE MAXIMUM RATINGS**

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



**ELECTRICAL CHARACTERISTICS**

PARAMETER	SYMBOL
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$
Emitter Cut-Off Current	$I_{EBO}$
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	$h_{FE}$
Transition Frequency	$f_T$
Output Capacitance	$C_{obo}$
Input Capacitance	$C_{ibo}$

\* Measured under pulsed conditions. Pulse width and duty cycle limited.  
For typical characteristics graphs see FMM

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