

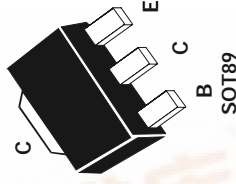
SOT89 NPN SILICON PLANAR DARLINGTON TRANSISTOR

ISSUE 3 - JANUARY 1996

FEATURES

- * Fast Switching
- * High h_{FE}

PARTMAKING DETAIL — AS3



BST52

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ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	90	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	10	V
Peak Pulse Current	I_{CM}	1.5	A
Continuous Collector Current	I_C	500	mA
Base Current	I_B	100	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	1	W
Operating and Storage Temperature Range	T_j, T_{stg}	-65 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	90		V	$I_C=10\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	80		V	$I_C=10mA, I_B=0^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	10		V	$I_E=10\mu A, I_C=0$
Emitter Cut-Off Current	I_{EBO}		10	μA	$V_{EB}=8V, I_E=0$
Collector-Emitter Cut-Off Current	I_{CES}		10	μA	$V_{CE}=80V, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	1.3		V	$I_C=500mA, I_B=0.5mA$
		1.3		V	$I_C=500mA, I_B=0.5mA$
					$T_J=150^{\circ}C$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		1.9	V	$I_C=500mA, I_B=0.5mA$
Static Forward Current Transfer Ratio	h_{FE}	1K			$I_C=150mA, V_{CE}=10V^*$
		2K			$I_C=-500mA, V_{CE}=-10V^*$
Turn On Time	t_{on}		400 Typical	ns	$I_C=500mA$
Turn Off Time	t_{off}		1.5K Typical	ns	$I_{B(on)}=I_{B(off)}=0.5mA$

* Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$
Spice parameter data is available upon request for this device
For typical characteristics graphs see FMM1614 datasheet.

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