

SOT89 PNP SILICON PLANAR MEDIUM POWER TRANSISTOR

BC869

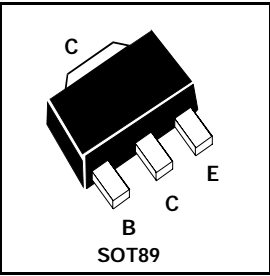
ISSUE 4 - JANUARY 1996

FEATURES

- * SUITABLE FOR GENERAL AF APPLICATIONS AND CLASS B AUDIO OUTPUT STAGES UP TO 3W
- * HIGH h_{FE} AND LOW SATURATION VOLTAGE

COMPLEMENTARY TYPE - BC868 (NPN)

PARTMARKING DETAILS - BC869 - CEC
 BC869-16 - CHC
 BC869-25 - CJC



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-25	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-2	A
Continuous Collector Current	I_C	-1	A
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.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-25			V	$I_C = -100\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-20			V	$I_C = -10mA^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E = -10\mu A$
Collector Cut-Off Current	I_{CBO}			-10 -1	μA mA	$V_{CB} = -25V$ $V_{CE} = -25V, T_{amb} = 150^{\circ}C$
Emitter Cut-Off Current	I_{EBO}			-10	μA	$V_{EB} = -5V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C = -1A, I_B = -100mA^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$			-1.0	V	$I_C = -1A, V_{CE} = -1V^*$
Static Forward Current Transfer Ratio	h_{FE}	50 85 60 100 160		375 250 375		$I_C = -5mA, V_{CE} = -10V^*$ $I_C = -500mA, V_{CE} = -1V^*$ $I_C = -1A, V_{CE} = -1V^*$ $I_C = -500mA, V_{CE} = -1V^*$ $I_C = -500mA, V_{CE} = -1V^*$
Transition Frequency	f_T		60		MHz	$I_C = -10mA, V_{CE} = -5V$ $f = 35MHz$
Output Capacitance	C_{obo}		45		pF	$V_{CB} = -10V, f = 1MHz$

*Measured under pulsed conditions. Pulse width=300us. Duty cycle $\leq 2\%$
 For typical characteristics graphs see FMMT549 datasheet



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.