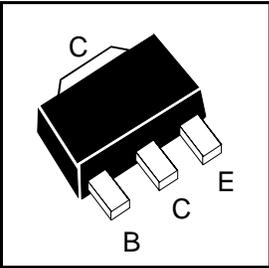


SOT89 NPN SILICON PLANAR HIGH VOLTAGE TRANSISTOR

ISSUE 3 - OCTOBER 1995 

BFN16



COMPLEMENTARY TYPE - BFN17
PARTMARKING DETAILS - DD

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	250	V
Collector-Emitter Voltage	V_{CEO}	250	V
Emitter-Base Voltage	V_{EBO}	5	V
Peak Pulse Current	I_{CM}	500	mA
Continuous Collector Current	I_C	200	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 $T_{amb} = 25^{\circ}C$).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	250		V	$I_C=100\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	250		V	$I_C=1mA$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5		V	$I_E=100\mu A$
Collector Cut-Off Current	I_{CBO}		100 20	nA μA	$V_{CB}=250V$ $V_{CB}=250V, T_{amb}=150^{\circ}C$
Emitter Cut-Off Current	I_{EBO}		100	nA	$V_{EB}=3V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.4	V	$I_C=20mA, I_B=2mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		0.9	V	$I_C=20mA, I_B=2mA$
Static Forward Current Transfer Ratio	h_{FE}	25 40 40			$I_C=1mA, V_{CE}=10V^*$ $I_C=10mA, V_{CE}=10V$ $I_C=30mA, V_{CE}=10V$
Transition Frequency	f_T	Typ.70		MHz	$I_C=20mA, V_{CE}=10V^*$ $f=20MHz$
Output Capacitance	C_{obo}	Typ.1.5		pF	$V_{CB}=30V, f=1MHz$

* Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$
For typical characteristics graphs see FMMTA42 datasheet

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