

PNP SILICON PLANAR
HIGH VOLTAGE TRANSISTOR

ISSUE 1 – MARCH 94

FEATURES

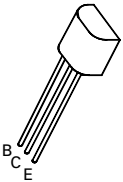
- * 300 Volt V_{CEO}

APPLICATIONS

- * Telephone dialler circuits

REFER TO MPSA92 FOR GRAPHS

FXTA92



**E-Line
TO92 Compatible**

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-300	V
Collector-Emitter Voltage	V_{CEO}	-300	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I_C	-500	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	680	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +175	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-300			V	$I_C=-100\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-300			V	$I_C=-1mA, I_B=0^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-10\mu A, I_C=0$
Collector Cut-Off Current	I_{CBO}			-0.25	μA	$V_{CB}=-200V, I_E=0$
Emitter Cut-Off Current	I_{EBO}			-0.1	μA	$V_{EB}=-3V, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	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 25				$I_C=-1mA, V_{CE}=-10V^*$ $I_C=-10mA, V_{CE}=-10V^*$ $I_C=-30mA, V_{CE}=-10V^*$
Transition Frequency	f_T	50			MHz	$I_C=-10mA, V_{CE}=-20V$ $f=20MHz$
Output Capacitance	C_{obo}			6	pF	$V_{CB}=-20V, f=1MHz$