

NPN SILICON PLANAR HIGH VOLTAGE TRANSISTOR

MPSA44

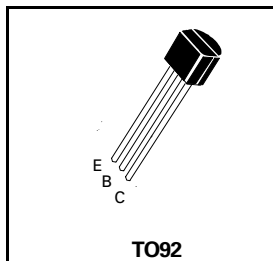
ISSUE 2 – MARCH 94

FEATURES

- * High voltage

APPLICATIONS

- * Telephone dialler circuit



TO92

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	400	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I_C	300	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	625	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	400			V	$I_C=100\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	400			V	$I_C=1mA, I_B=0^*$
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	400			V	$I_C=100\mu A, I_E=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6			V	$I_E=10\mu A, I_C=0$
Collector Cut-Off Current	I_{CBO}			0.1	μA	$V_{CB}=400V, I_E=0$
Collector Cut-Off Current	I_{CES}			500	nA	$V_{CE}=400V$
Emitter Cut-Off Current	I_{EBO}			0.1	μA	$V_{EB}=4V, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.4 0.5 0.75	V	$I_C=1mA, I_B=0.1mA^*$ $I_C=10mA, I_B=1mA^*$ $I_C=50mA, I_B=5mA^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			0.75	V	$I_C=10mA, I_B=1mA^*$
Static Forward Current Transfer Ratio	h_{FE}	40 50 45 40		300		$I_C=1mA, V_{CE}=10V^*$ $I_C=10mA, V_{CE}=10V^*$ $I_C=50mA, V_{CE}=10V^*$ $I_C=100mA, V_{CE}=10V^*$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Diodes Incorporated:](#)

[MPSA44](#)