

**MPSA93** TRANSISTOR (PNP)**FEATURES**

Power dissipation

 $P_{CM}$ : 0.625 W ( $T_{amb}=25^\circ C$ )

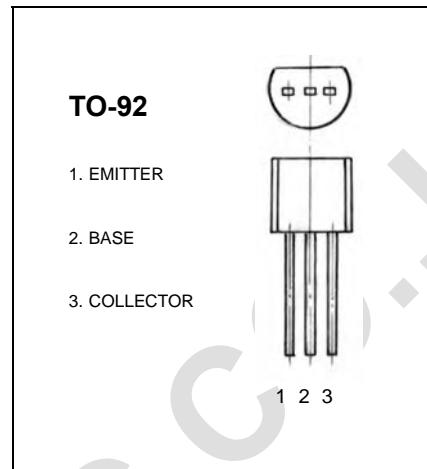
Collector current

 $I_{CM}$ : -0.5 A

Collector-base voltage

 $V_{(BR)CBO}$ : -200 V

Operating and storage junction temperature range

 $T_J, T_{stg}$ : -55°C to +150°C**ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V(BR)_{CBO}$	$I_C = -100\mu A, I_E = 0$	-200			V
Collector-emitter breakdown voltage	$V(BR)_{CEO}^*$	$I_C = -1mA, I_B = 0$	-200			V
Emitter-base breakdown voltage	$V(BR)_{EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -160V, I_E = 0$			-0.25	uA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -3V, I_C = 0$			-0.1	uA
DC current gain	$h_{FE}^*$	$V_{CE} = -10V, I_C = -1mA$	25			
		$V_{CE} = -10V, I_C = -10mA$	40			
		$V_{CE} = -10V, I_C = -30mA$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}^*$	$I_C = -20mA, I_B = -2mA$			-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}^*$	$I_C = -20mA, I_B = -2mA$			-0.9	V
Transition frequency	$f_T$	$V_{CE} = -20V, I_C = -10mA$ $f = 100MHz$	50			MHz

\* Pulse test: Pulse width  $\leq 300\mu s$ , Duty cycle  $\leq 2\%$ .