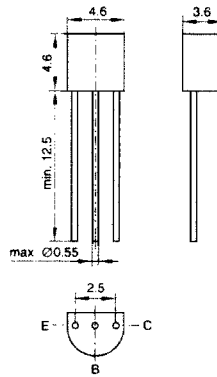


MPSA92, MPSA93

PNP Silicon Epitaxial Planar Transistors

especially suited as line switch in telephone subsets and in video output stages of TV receivers and monitors.

As complementary types, the PNP transistors MPSA42 and MPSA43 are recommended.



TO-92 Plastic Package

Weight approx. 0.18 g
Dimensions in mm

Absolute Maximum Ratings

		Symbol	Value	Unit
Collector-Emitter Voltage	MPSA92	$-V_{CEO}$	300	V
	MPSA93	$-V_{CEO}$	200	V
Collector-Base Voltage	MPSA92	$-V_{CBO}$	300	V
	MPSA93	$-V_{CBO}$	200	V
Emitter-Base Voltage		$-V_{EBO}$	5	V
Collector Current		$-I_C$	500	mA
Power Dissipation at $T_{amb} = 25\text{ }^{\circ}\text{C}$		P_{tot}	625 ¹⁾	mW
Junction Temperature		T_j	150	$^{\circ}\text{C}$
Storage Temperature Range		T_S	-65...+150	$^{\circ}\text{C}$

¹⁾ Valid provided that lead are kept at ambient temperature at a distance of 2 mm from case.

Characteristics at $T_{amb} = 25\text{ }^{\circ}\text{C}$

		Symbol	Min.	Typ.	Max.	Unit
Collector-Emitter Breakdown Voltage $-I_C = 10\text{ mA}, I_B = 0$	MPSA92	$-V_{(BR)CEO}$	300	-	-	V
	MPSA93	$-V_{(BR)CEO}$	200	-	-	V
Collector-Base Breakdown Voltage $-I_C = 100\text{ }\mu\text{A}, I_E = 0$	MPSA92	$-V_{(BR)CBO}$	300	-	-	V
	MPSA93	$-V_{(BR)CBO}$	200	-	-	V
Emitter-Base Breakdown Voltage $-I_E = 100\text{ }\mu\text{A}, I_C = 0$		$-V_{(BR)EBO}$	5	-	-	V
Collector-Base Cutoff Current $-V_{CB} = 200\text{ V}, I_E = 0$ $-V_{CB} = 160\text{ V}, I_E = 0$	MPSA92	$-I_{CBO}$	-	-	250	nA
	MPSA93	$-I_{CBO}$	-	-	250	nA
Emitter-Base Cutoff Current $-V_{EB} = 3\text{ V}, I_C = 0$		$-I_{EBO}$	-	-	100	nA
DC Current Gain $-I_C = 1\text{ mA}, -V_{CE} = 10\text{ V}$ $-I_C = 10\text{ mA}, -V_{CE} = 10\text{ V}$ $-I_C = 30\text{ mA}, -V_{CE} = 10\text{ V}$		h_{FE}	25	-	-	-
		h_{FE}	40	-	-	-
		h_{FE}	25	-	-	-
Collector-Emitter Saturation Voltage $-I_C = 20\text{ mA}, -I_B = 2\text{ mA}$		$-V_{CEsat}$	-	-	500	mV
Base-Emitter Saturation Voltage $-I_C = 20\text{ mA}, -I_B = 2\text{ mA}$		$-V_{BEsat}$	-	-	900	mV
Gain-Bandwidth Product $-I_C = 10\text{ mA}, -V_{CE} = 20\text{ V}, f = 100\text{ MHz}$		f_T	50	-	-	MHz
Collector-Base Capacitance $-V_{CB} = 20\text{ V}, I_E = 0, f = 1\text{ MHz}$	MPSA92	C_{CBO}	-	-	6	pF
	MPSA93	C_{CBO}	-	-	8	pF
Thermal Resistance Junction to Ambient Air		R_{thA}	-	-	200 ¹⁾	K/W

¹⁾ Valid provided that lead are kept at ambient temperature at a distance of 2 mm from case.