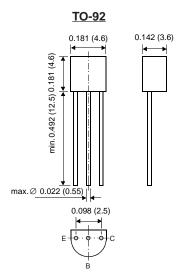
MPSA56

Small Signal Transistors (PNP)



Dimensions in inches and (millimeters)

FEATURES

- PNP Silicon Epitaxial Planar Transistor for switching and amplifier applications.
- As complementary type, the NPN transistor MPSA06 is recommended.
- On special request, this transistor is also manufactured in the pin configuration TO-18.
- ◆ This transistor is also available in the SOT-23 case with the type designation MMBTA56.

MECHANICAL DATA

Case: TO-92 Plastic Package

Weight: approx. 0.18g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	VALUE	UNIT
Collector-Base Voltage	-Усво	80	V
Collector-Emitter Voltage	-Vceo	80	V
Emitter-Base Voltage	–VЕВО	4.0	V
Collector Current	-Ic	500	mA
Power Dissipation at T _A = 25 °C at T _C = 25 °C	P _{tot}	625 1.5	mW W
Thermal Resistance Junction to Ambient Air	Reja	200 ⁽¹⁾	K/W
Junction Temperature	Тј	150	°C
Storage Temperature Range	Ts	- 55 to +150	°C

¹⁾Valid provided that leads are kept at ambient temperature



MPSA56

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	MIN.	.MAX.	UNIT
Collector-Emitter Breakdown Voltage at -Ic = 1 mA, IB = 0 mA	-VBR(CEO)	80	-	V
Emitter-Base Breakdown Voltage at I _E = 100 mA, I _C = 0	-V(BR)EBO	4.0	-	V
Collector-Emitter Cutoff Current -Vce = 60 V, -I _B = 0	-I _{CES}	_	100	nA
Collector-Base Cutoff Current -VCB = 80 V, IE = 0	-I _{CBO}	_	100	nA
Collector Saturation Voltage at -I _C = 100 mA, -I _B = 10 mA	-VCEsat	_	0.25	V
Base-Emitter On Voltage at -I _C = 100 mA, -I _B = 10 mA at -I _C = 50 mA, -I _B = 5 mA	-VBE(on)	-	1.2	V
DC Current Gain at VcE = 1 V, -Ic = 10 mA at VcE = 1 V, -Ic = 100 mA	hfe hfe	100 100	_ _	_ _
Gain-Bandwidth Product at Vce = 1 V, Ic = 100 mA, f = 100 MHz	fτ	50	_	MHz

¹⁾ Valid provided that electrodes are kept at ambient temperature

