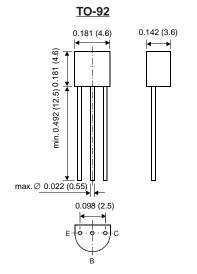
MPSA56

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	MBOL VALUE	
Collector-Base Voltage	-Усво	80	V
Collector-Emitter Voltage	-Vceo	80	V
Emitter-Base Voltage	-Vево	4.0	V
Collector Current	–lc	500	mA
Power Dissipation at $T_A = 25 \text{ °C}$ at $T_C = 25 \text{ °C}$	Ptot	625 1.5	mW W
Thermal Resistance Junction to Ambient Air	Reja	200(1)	K/W
Junction Temperature	Tj	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 $I_E = 100 \text{ mA}, I_C = 0$	-V(br)ebo	4.0	_	V
Collector-Emitter Cutoff Current -V _{CE} = 60 V, $-I_B = 0$	-ICES	_	100	nA
Collector-Base Cutoff Current -V _{CB} = 80 V, $I_E = 0$	-Ісво	_	100	nA
Collector Saturation Voltage at $-I_{C} = 100 \text{ mA}$, $-I_{B} = 10 \text{ mA}$	-V _{CEsat}	_	0.25	V
Base-Emitter On Voltage at $-I_C = 100 \text{ mA}$, $-I_B = 10 \text{ mA}$ at $-I_C = 50 \text{ mA}$, $-I_B = 5 \text{ mA}$	-VBE(on)	_	1.2	v
DC Current Gain at VCE = 1 V, $-IC = 10 \text{ mA}$ at VCE = 1 V, $-IC = 100 \text{ mA}$	hFE hFE	100 100		- -
Gain-Bandwidth Product at Vce = 1 V, Ic = 100 mA, f = 100 MHz	fT	50	_	MHz

¹⁾ Valid provided that electrodes are kept at ambient temperature

