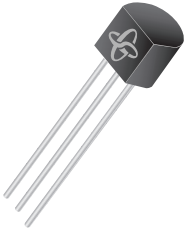
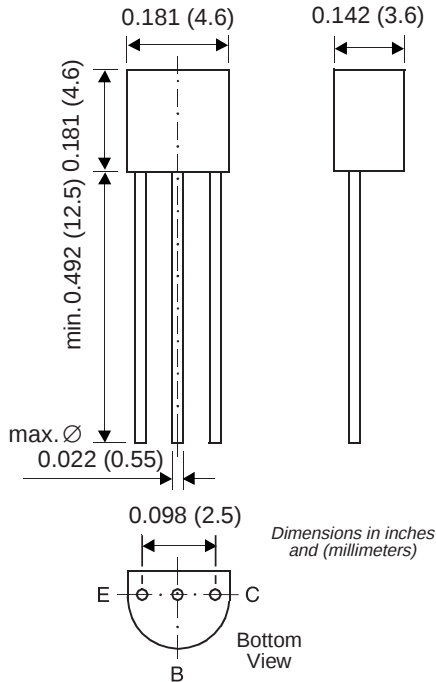


Small Signal Transistor (PNP)



New Product

TO-226AA (TO-92)



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

Packaging Codes/Options:

E6/Bulk - 5K per container

E7/4K per Ammo tape

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameters	Symbols	Value	Units
Collector-Base Voltage	$-V_{CBO}$	80	V
Collector-Emitter Voltage	$-V_{CEO}$	80	V
Emitter-Base Voltage	$-V_{EBO}$	4.0	V
Collector Current	$-I_C$	500	mA
Power Dissipation $T_A = 25^\circ\text{C}$ $T_C = 25^\circ\text{C}$	P_{tot}	625 1.5	mW W
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	200 ⁽¹⁾	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to +150	$^\circ\text{C}$

Notes:

(1) Valid provided that leads are kept at ambient temperature.

Small Signal Transistor (PNP)
Electrical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
DC Current Gain	h_{FE}	$-V_{CE} = 1\text{ V}, -I_C = 10\text{ mA}$ $-V_{CE} = 1\text{ V}, -I_C = 100\text{ mA}$	100 100	— —	— —	—
Collector-Emitter Breakdown Voltage	$-V_{(BR)CEO}$	$-I_C = 1\text{ mA}, I_B = 0\text{ mA}$	80	—	—	V
Emitter-Base Breakdown Voltage	$-V_{(BR)EBO}$	$-I_E = 100\text{ }\mu\text{A}, I_C = 0$	4.0	—	—	V
Collector Saturation Voltage	$-V_{CEsat}$	$-I_C = 100\text{ mA}, -I_B = 10\text{ mA}$	—	—	0.25	V
Base-Emitter ON Voltage	$-V_{BE(on)}$	$-I_C = 10\text{ mA}, -I_B = 1\text{ mA}$	—	—	1.2	V
Collector-Emitter Cut-off Current	$-I_{CES}$	$-V_{CE} = 60\text{ V}, -I_B = 0$	—	—	100	nA
Collector-Base Cut-off Current	$-I_{CBO}$	$-V_{CB} = 80\text{ V}, I_E = 0$	—	—	100	nA
Gain-Bandwidth Product	f_T	$-V_{CE} = 1\text{ V}, -I_C = 100\text{ mA}$ $f = 100\text{ MHz}$	50	—	—	MHz