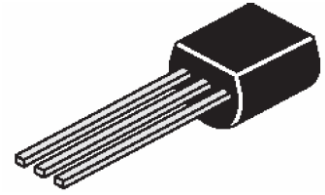


Small Signal High Voltage Transistor (PNP)

Features

- PNP Silicon Epitaxial Transistor
- RoHS Compliance



TO-92



Mechanical Data

Case:	TO-92, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.18 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MPSA92	Unit
V_{CEO}	Collector-Emitter Voltage	300	V
V_{CBO}	Collector-Base Voltage	300	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current Continuous	500	mA
P_D	Power Dissipation at $T_A=25^{\circ}C$	625	mW
	Derate above $25^{\circ}C$	5.0	mW/ $^{\circ}C$
P_D	Power Dissipation at $T_C=25^{\circ}C$	1.5	W
	Derate above $25^{\circ}C$	12	mW/ $^{\circ}C$
R_{θJA}	Thermal Resistance Junction to Ambient Air	200	$^{\circ}C/W$
R_{θJC}	Thermal Resistance Junction to Case	83.3	$^{\circ}C/W$
T_J, T_{STG}	Operation and Storage Junction Temperature Range	-55 to +150	$^{\circ}C$

Small Signal High Voltage Transistors (PNP)

MPSA92

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

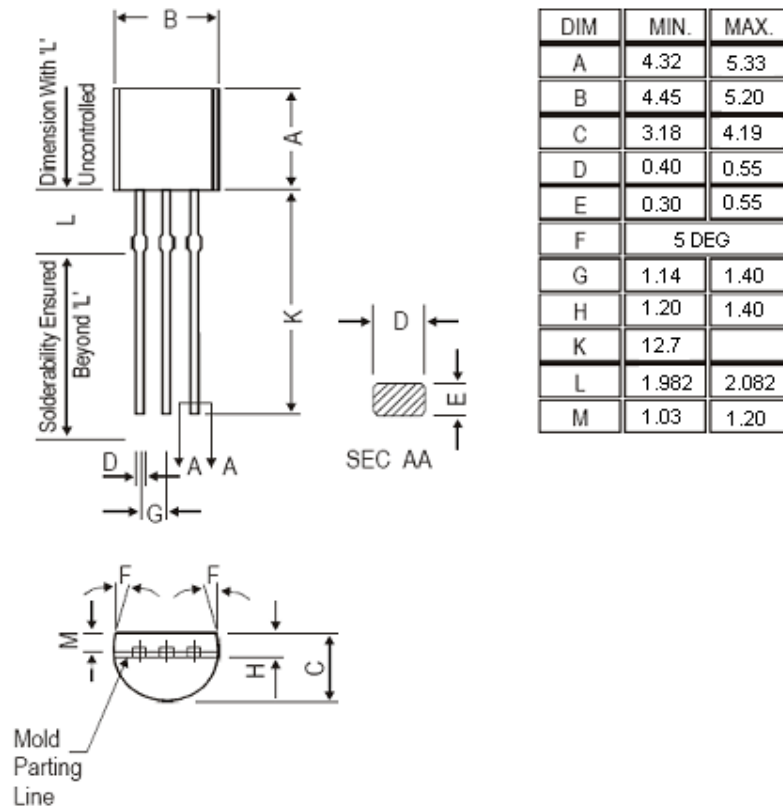
Symbol	Description	MPSA92		Unit	Conditions
		Min.	Max.		
V_{(BR)CEO}*	Collector-Emitter Breakdown Voltage	300	-	V	I _C =1mA, I _B =0
V_{(BR)CBO}	Collector-Base Breakdown Voltage	300	-	V	I _C =1μA, I _E =0
V_{(BR)EBO}	Emitter-Base Breakdown Voltage	5.0	-	V	I _E =100μA, I _C =0
I_{CBO}	Collector Cut-Off Current	-	250	nA	V _{CB} =200V, I _E =0
I_{EBO}	Emitter Cut-Off Current	-	100	nA	V _{EB} =3V, I _C =0
V_{CE(sat)}	Collector Emitter Saturation Voltage	-	0.5	V	I _C =20mA, I _B =2mA
V_{BE(on)}	Base Emitter On Voltage	-	0.9	V	I _C =20mA, I _B =2mA
h_{FE}	D.C. Current Gain	25	-	-	V _{CE} =10V, I _C =1mA
		40	-		V _{CE} =10V, I _C =10mA
		25	-		V _{CE} =10V, I _C =30mA
f_T	Current Gain-Bandwidth Product	50	-	MHz	V _{CE} =20V, I _C =10mA, f=100MHz
C_{cb}	Collector Base Capacitance	-	6.0	pF	V _{CB} =20V, I _E =0, f=1MHz

*Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%.

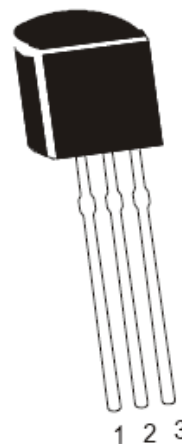
Small Signal High Voltage Transistors (PNP)

MPSA92

Dimensions in mm



TO-92



PIN CONFIGURATION

1. EMITTER
2. BASE
3. COLLECTOR

1 2 3

Small Signal High Voltage Transistors (PNP)

MPSA92

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027