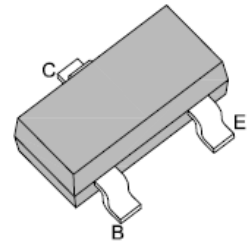


SMD High Voltage Transistor (PNP)

Features

- This device is designed for high voltage driver applications
- RoHS compliance



Mechanical Data

SOT-23



Case:	SOT-23, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.008 gram

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

Symbol	Description	MMBTA92	Unit
	Marking Code	2D	
-V_{CB0}	Collector-Base Voltage	300	V
-V_{CE0}	Collector-Emitter Voltage	300	V
-V_{EB0}	Emitter-Base Voltage	5	V
-I_c	Collector Current	500	mA
P_{tot}	Power Dissipation up to T _A =25°C	250	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

SMD High Voltage Transistor (PNP)

MMBTA92

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

Symbol	Description	MMBTA92		Unit	Conditions
		Min.	Max.		
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
-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 =100μA, I _E =0
-V_{(BR)EBO}	Emitter-Base Breakdown Voltage	5	-	V	-I _E =100μA, I _C =0
-V_{CE(sat)}	Collector-Emitter Saturation Voltage	-	0.5	V	-I _C =20mA, -I _B =2mA
-V_{BE(sat)}	Base-Emitter Saturation Voltage	-	0.9	V	-I _C =20mA, -I _B =2mA
-I_{EBO}	Collector-Emitter Cut-off Current	-	0.1	mA	-V _{BE} =3V, I _C =0
-I_{CBO}	Collector-Base Cut-off Current	-	0.25	μA	-V _{CB} =200V, I _E =0
f_T	Current Gain-Bandwidth Product	50	-	MHz	-V _{CE} =20V, -I _C =10mA, f=100MHz
C_{cb}	Collector-Base Capacitance	-	6	pF	-V _{CB} =20V, I _E =0, f=1.0MHz,

SMD High Voltage Transistor (PNP)

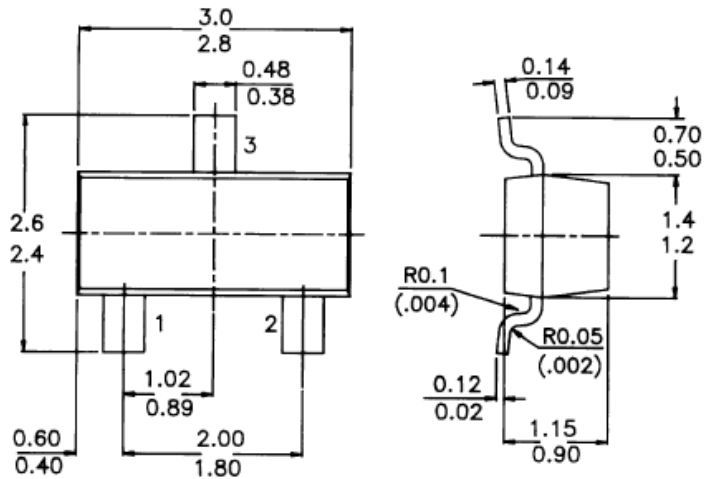
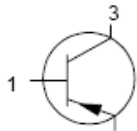
MMBTA92

Dimensions in mm

SOT-23

Pin configuration

- 1 = BASE
- 2 = EMITTER
- 3 = COLLECTOR



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