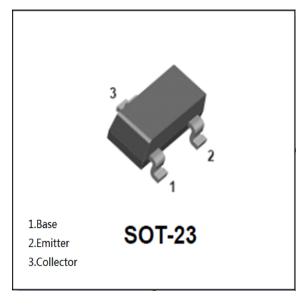
# **PNP Silicon High Voltage Transistor**



#### Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- •Surface mount package ideally Suited for Automatic Insertion
- •PNP

#### **Mechanical Data**

- Package: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 2D

#### ■Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V <sub>CBO</sub>	V	IC=-100µA,IE=0	-300
Collector-Emitter Voltage	V <sub>CEO</sub>	V	IC =-1mA,IB=0	-300
Emitter-Base Voltage	V <sub>EBO</sub>	V	IE=-100µA,IC=0	-5
Collector Current	Ic	mA		-300
Collector Power Dissipation	Pc	mW		300
Operation Junction Temperature	Tj	°C		-55 to +150
Storage Temperature	T <sub>stg</sub>	°C		-55 to +150

#### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Мах
Collector-base breakdown voltage	V <sub>CBO</sub>	V	IC=-100µA,IE=0	-300	
Collector-emitter breakdown voltage	V <sub>CEO</sub>	V	IC =-1mA,IB=0	-300	
Emitter-base breakdown voltage	V <sub>EBO</sub>	V	IE=-100µA,IC=0	-5	
Collector-base cut-off current	I <sub>CBO</sub>	nA	VCB=-200V,IE=0		-250
Emitter-base cut-off current	I <sub>EBO</sub> nA VEB=-5V,IC=0			-100	
	h <sub>FE</sub>		VCE=-10V,IC=-1mA	60	
DC current gain	h <sub>FE</sub>		VCE=-10V,IC=-10mA	100	200
	h <sub>FE</sub>		VCE=-10V,IC=-30mA	60	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=-20mA,IB=-2mA		-0.2
Base-emitter saturation voltage	$V_{BE(sat)^*}$	V	IC=-20mA,IB=-2mA		-0.9



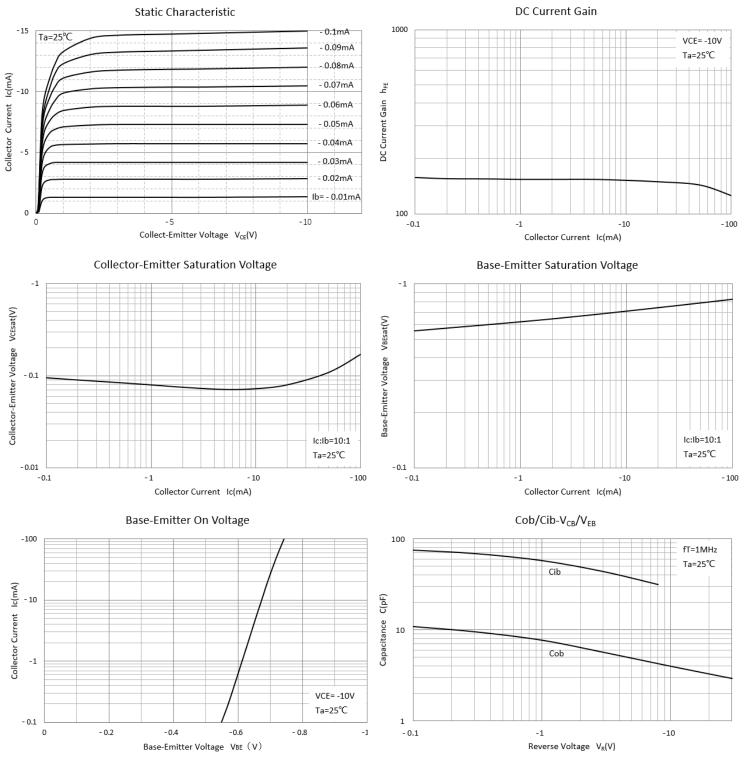
#### ■Other Characteristics (Ta=25°C Unless otherwise specified)

Item	Item Symbol Ur		Conditions	Min	Max	
Transition frequency	Ft	MHz	VCE=-20V,IC=-10mA,f=30MHz	50		
Ordening Information (Evenue)						

## Ordering Information (Example)

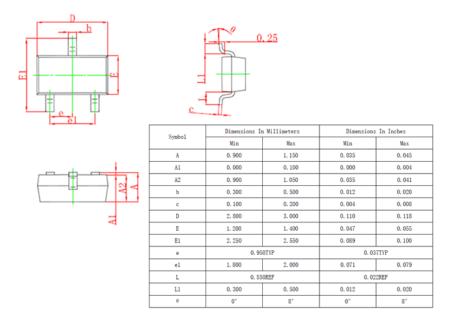
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBTA92	F2	Approximate 0.009	3000	30000	120000	7" reel

## ■Characteristics(Typical)

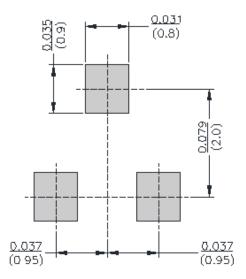


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## ■SOT-23 Package Outline Dimensions



## ■SOT-23 Soldering Footprint





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