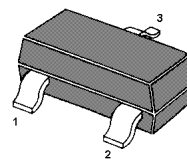


MMBTA92 / MMBTA93

PNP Silicon High Voltage Transistors

for high voltage switching and amplifier applications.



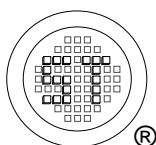
1. Base 2. Emitter 3. Collector
TO-236 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit	
Collector Base Voltage	MMBTA92 MMBTA93	- V_{CBO}	300 200	V
Collector Emitter Voltage	MMBTA92 MMBTA93	- V_{CEO}	300 200	V
Emitter Base Voltage		- V_{EBO}	5	V
Collector Current		- I_C	500	mA
Total Power Dissipation		P_{tot}	350	mW
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

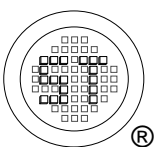
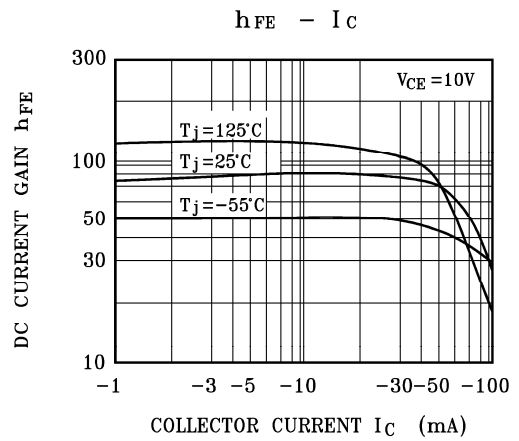
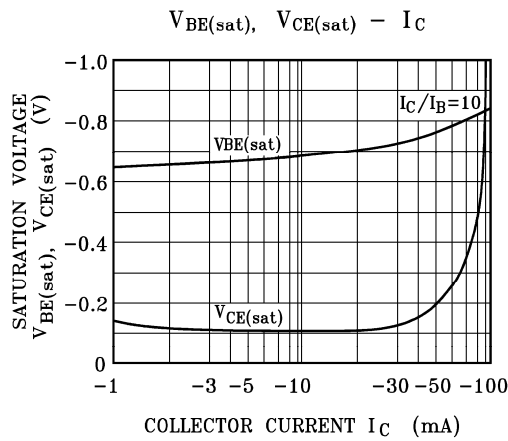
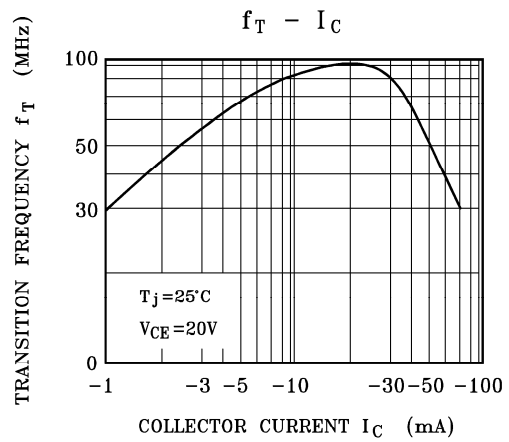
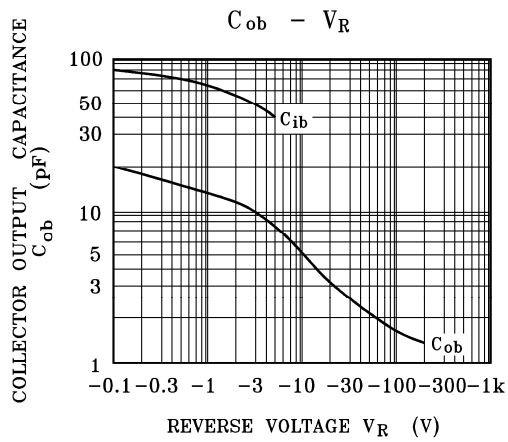
Parameter	Symbol	Min.	Max.	Unit	
DC Current Gain					
at $-V_{CE} = 10\text{ V}$, $-I_C = 1\text{ mA}$	h_{FE}	25	-	-	
at $-V_{CE} = 10\text{ V}$, $-I_C = 10\text{ mA}$	h_{FE}	80	200	-	
at $-V_{CE} = 10\text{ V}$, $-I_C = 30\text{ mA}$	h_{FE}	25	-	-	
Collector Base Cutoff Current					
at $-V_{CB} = 200\text{ V}$	MMBTA92	- I_{CBO}	-	0.25	μA
at $-V_{CB} = 160\text{ V}$	MMBTA93	- I_{CBO}	-	0.25	μA
Emitter Base Cutoff Current					
at $-V_{EB} = 3\text{ V}$		- I_{EBO}	-	0.1	μA
Collector Base Breakdown Voltage					
at $-I_C = 100\text{ }\mu\text{A}$	MMBTA92	- $V_{(BR)CBO}$	300	-	V
	MMBTA93	- $V_{(BR)CBO}$	200	-	V
Collector Emitter Breakdown Voltage					
at $-I_C = 1\text{ mA}$	MMBTA92	- $V_{(BR)CEO}$	300	-	V
	MMBTA93	- $V_{(BR)CEO}$	200	-	V
Emitter Base Breakdown Voltage					
at $-I_E = 100\text{ }\mu\text{A}$		- $V_{(BR)EBO}$	5	-	V
Collector Emitter Saturation Voltage					
at $-I_C = 20\text{ mA}$, $-I_B = 2\text{ mA}$		- $V_{CE(sat)}$	-	0.5	V
Base Emitter Saturation Voltage					
at $-I_C = 20\text{ mA}$, $-I_B = 2\text{ mA}$		- $V_{BE(sat)}$	-	0.9	V
Current Gain Bandwidth Product					
at $-V_{CE} = 20\text{ V}$, $-I_C = 10\text{ mA}$, $f = 100\text{ MHz}$		f_T	50	-	MHz
Collector Base Capacitance					
at $-V_{CB} = 20\text{ V}$, $f = 1\text{ MHz}$	MMBTA92	C_{cb}	-	6	pF
	MMBTA93	C_{cb}	-	8	pF



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MMBTA92 / MMBTA93



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