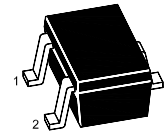


MMBT8550W (1.5A)

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications



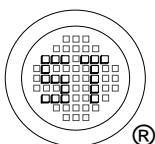
1.Base 2.Emitter 3.Collector
SOT-323 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CB0}$	40	V
Collector Emitter Voltage	$-V_{CEO}$	25	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Peak Collector Current	$-I_{CM}$	1.5	A
Total Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	
DC Current Gain at $-V_{CE} = 1\text{ V}$, $-I_C = 100\text{ mA}$	MMBT8550CW	h_{FE}	100	250	-
	MMBT8550DW	h_{FE}	160	400	-
		h_{FE}	40	-	-
at $-V_{CE} = 1\text{ V}$, $-I_C = 800\text{ mA}$					
Collector Base Voltage at $-I_C = 100\text{ }\mu\text{A}$	$-V_{CB0}$	40	-	V	
Collector Emitter Voltage at $-I_C = 100\text{ }\mu\text{A}$	$-V_{CEO}$	25	-	V	
Emitter Base Voltage at $-I_E = 100\text{ }\mu\text{A}$	$-V_{EBO}$	5	-	V	
Collector Base Cutoff Current at $-V_{CB} = 40\text{ V}$	$-I_{CB0}$	-	100	nA	
Collector Emitter Cutoff Current at $-V_{CE} = 20\text{ V}$	$-I_{CEO}$	-	100	nA	
Emitter Base Cutoff Current at $-V_{EB} = 5\text{ V}$	$-I_{EBO}$	-	100	nA	
Collector Emitter Saturation Voltage at $-I_C = 800\text{ mA}$, $-I_B = 80\text{ mA}$	$-V_{CE(sat)}$	-	0.5	V	
Base Emitter Saturation Voltage at $-I_C = 800\text{ mA}$, $-I_B = 80\text{ mA}$	$-V_{BE(sat)}$	-	1.2	V	
Transition Frequency at $-V_{CE} = 10\text{ V}$, $-I_C = 50\text{ mA}$, $f = 30\text{ MHz}$	f_T	100	-	MHz	



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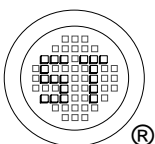
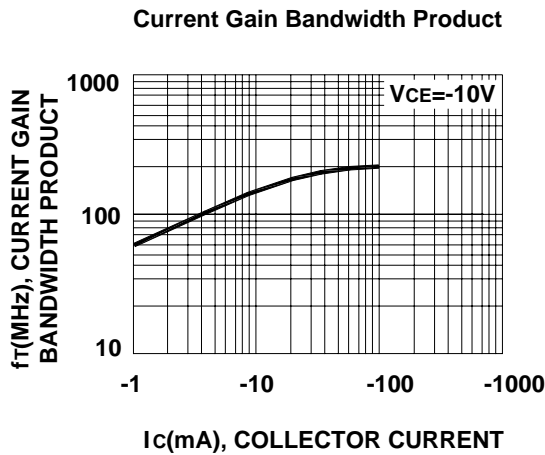
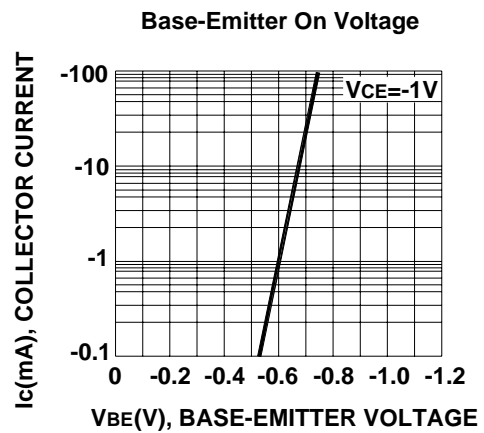
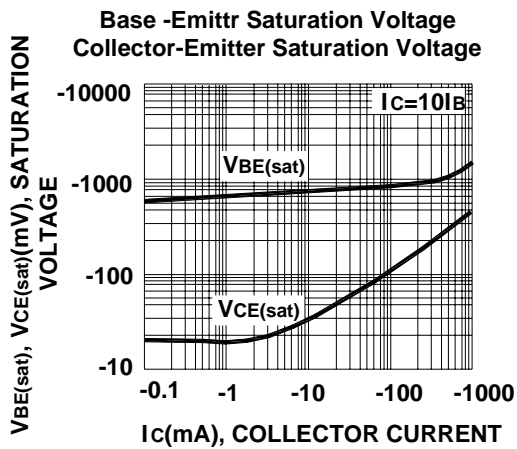
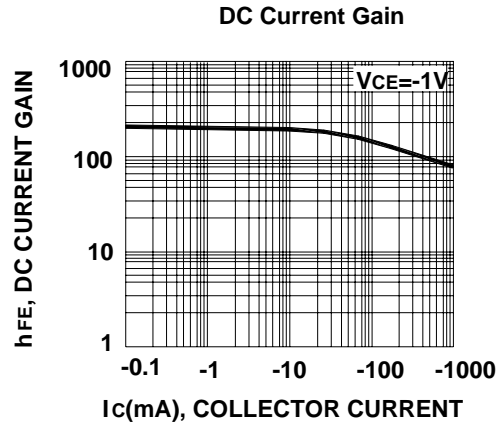
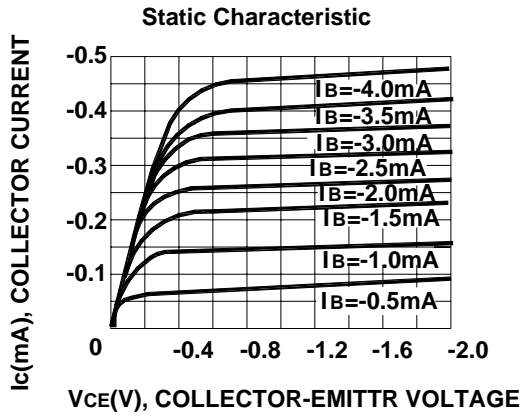
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ISO 14001:2004 Certificate No. 7116
ISO 9001:2000 Certificate No. 0506088

Dated : 11/08/2006

MMBT8550W (1.5A)



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