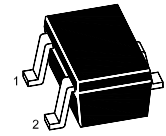


MMBT8550W (1.5A)

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications



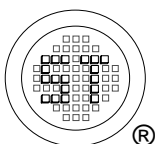
1.Base 2.Emitter 3.Collector
SOT-323 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	40	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	25	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Peak Collector Current	$-I_{\text{CM}}$	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 $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 100\text{ mA}$	MMBT8550CW	h_{FE}	100	250	-
	MMBT8550DW	h_{FE}	160	400	-
		h_{FE}	40	-	-
at $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 800\text{ mA}$					
Collector Base Voltage at $-I_{\text{C}} = 100\ \mu\text{A}$	$-V_{\text{CBO}}$	40	-	V	
Collector Emitter Voltage at $-I_{\text{C}} = 100\ \mu\text{A}$	$-V_{\text{CEO}}$	25	-	V	
Emitter Base Voltage at $-I_{\text{E}} = 100\ \mu\text{A}$	$-V_{\text{EBO}}$	5	-	V	
Collector Base Cutoff Current at $-V_{\text{CB}} = 40\text{ V}$	$-I_{\text{CBO}}$	-	100	nA	
Collector Emitter Cutoff Current at $-V_{\text{CE}} = 20\text{ V}$	$-I_{\text{CEO}}$	-	100	nA	
Emitter Base Cutoff Current at $-V_{\text{EB}} = 5\text{ V}$	$-I_{\text{EBO}}$	-	100	nA	
Collector Emitter Saturation Voltage at $-I_{\text{C}} = 800\text{ mA}$, $-I_{\text{B}} = 80\text{ mA}$	$-V_{\text{CE(sat)}}$	-	0.5	V	
Base Emitter Saturation Voltage at $-I_{\text{C}} = 800\text{ mA}$, $-I_{\text{B}} = 80\text{ mA}$	$-V_{\text{BE(sat)}}$	-	1.2	V	
Transition Frequency at $-V_{\text{CE}} = 10\text{ V}$, $-I_{\text{C}} = 50\text{ mA}$, $f = 30\text{ MHz}$	f_{T}	100	-	MHz	



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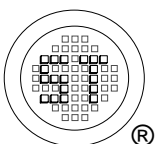
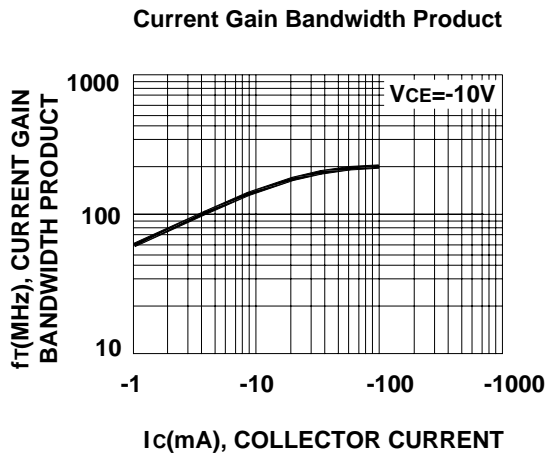
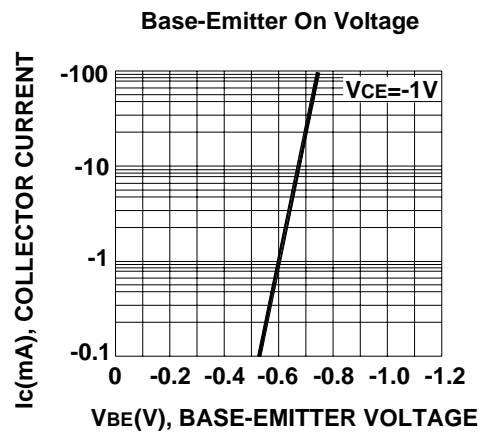
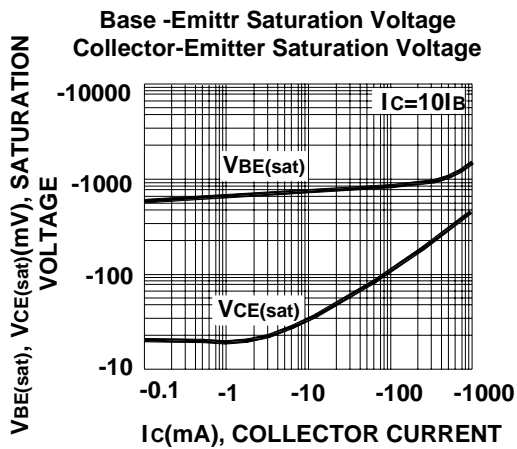
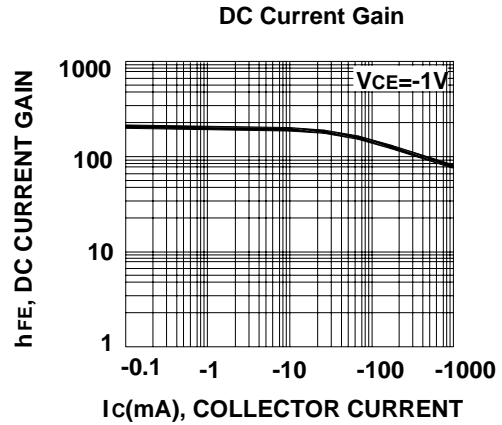
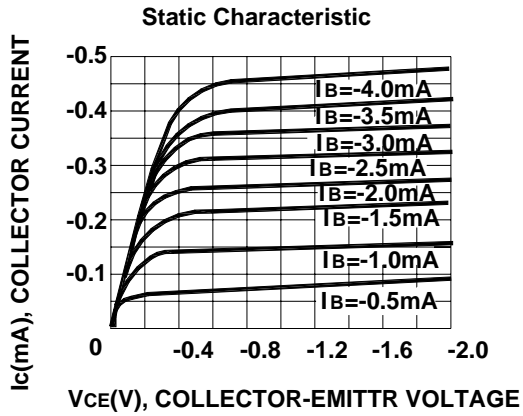
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listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002 Certificate No. 05103
ISO 14001:2004 Certificate No. 7116
ISO 9001:2000 Certificate No. 0506088

Dated : 11/08/2006

MMBT8550W (1.5A)



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