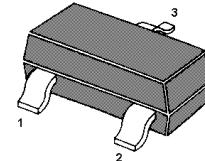


MMBT8550 (1.5A)

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

As complementary type the NPN transistor MMBT8050 (1.5A) is recommended.



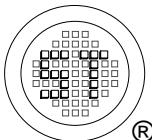
1.BASE 2.EMITTER 3.COLLECTOR
SOT-23 Plastic Package

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	$-V_{\text{EBO}}$	6	V
Collector Current	I_C	1.5	A
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 $T_a = 25^\circ\text{C}$

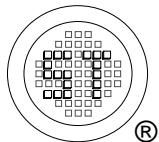
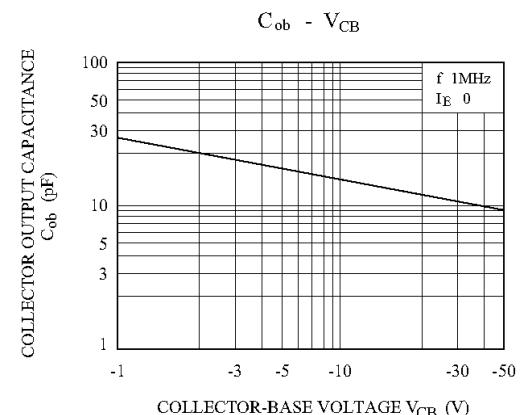
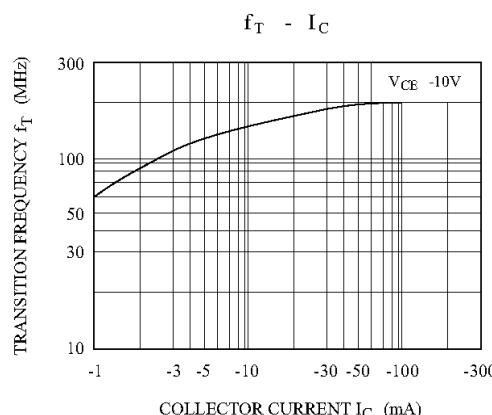
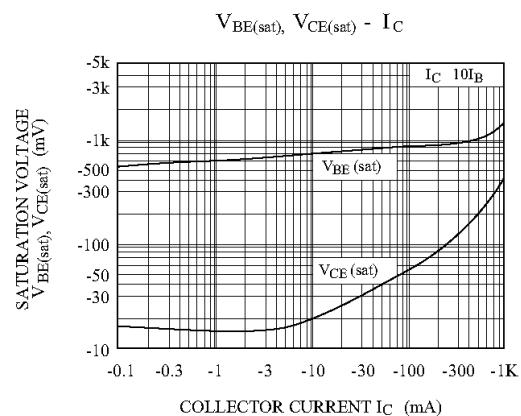
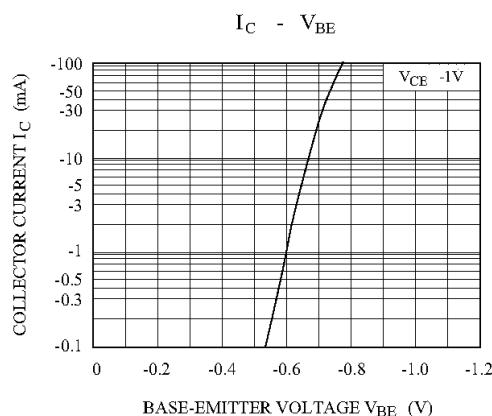
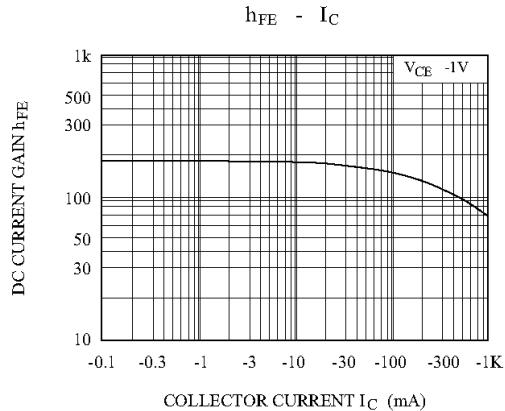
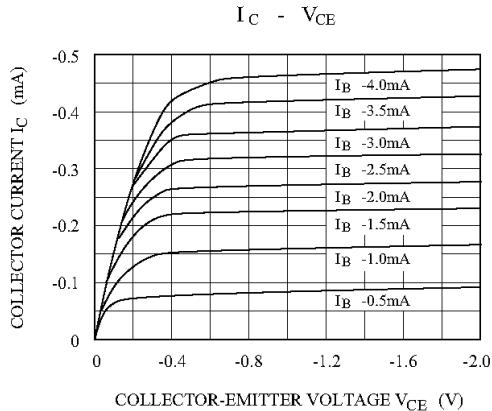
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $-V_{\text{CE}} = 1 \text{ V}$, $-I_C = 100 \text{ mA}$ MMBT8550C MMBT8550D	h_{FE}	100	250	-
	h_{FE}	160	400	-
	h_{FE}	40	-	-
Collector Base Cutoff Current at $-V_{\text{CB}} = 35 \text{ V}$	$-I_{\text{CBO}}$	-	100	nA
Emitter Base Cutoff Current at $-V_{\text{EB}} = 6 \text{ V}$	$-I_{\text{EBO}}$	-	100	nA
Collector Base Breakdown Voltage at $-I_C = 100 \mu\text{A}$	$-V_{(\text{BR})\text{CBO}}$	40	-	V
Collector Emitter Breakdown Voltage at $-I_C = 2 \text{ mA}$	$-V_{(\text{BR})\text{CEO}}$	25	-	V
Emitter Base Breakdown Voltage at $-I_E = 100 \mu\text{A}$	$-V_{(\text{BR})\text{EBO}}$	6	-	V
Collector Emitter Saturation Voltage at $-I_C = 800 \text{ mA}$, $-I_B = 80 \text{ mA}$	$-V_{\text{CE}(\text{sat})}$	-	0.5	V
Base Emitter Saturation Voltage at $-I_C = 800 \text{ mA}$, $-I_B = 80 \text{ mA}$	$-V_{\text{BE}(\text{sat})}$	-	1.2	V
Base Emitter Voltage at $-V_{\text{CE}} = 1 \text{ V}$, $-I_C = 10 \text{ mA}$	$-V_{\text{BE}(\text{on})}$	-	1	V
Gain Bandwidth Product at $-V_{\text{CE}} = 10 \text{ V}$, $-I_C = 50 \text{ mA}$	f_T	120	-	MHz



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MMBT8550 (1.5A)



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Dated : 11/04/2008