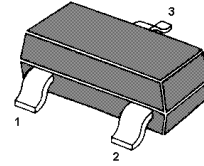


# MMBT8550 (1.5A)

## 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.



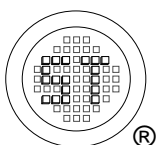
1.BASE 2.EMITTER 3.COLLECTOR  
TO-236 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	40	V
Collector Emitter Voltage	$-V_{CEO}$	25	V
Emitter Base Voltage	$-V_{EBO}$	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 $T_a = 25\text{ }^\circ\text{C}$

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

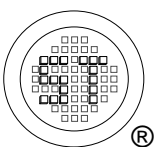
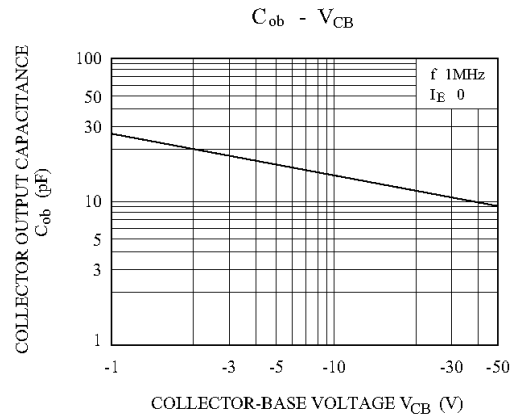
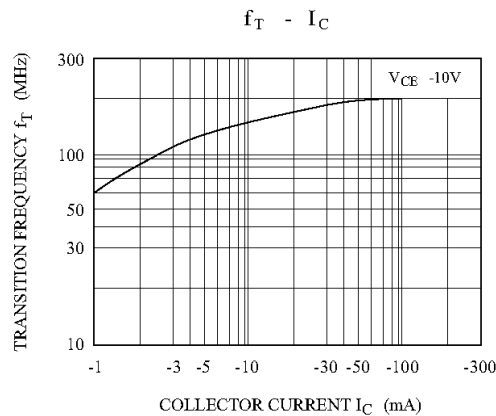
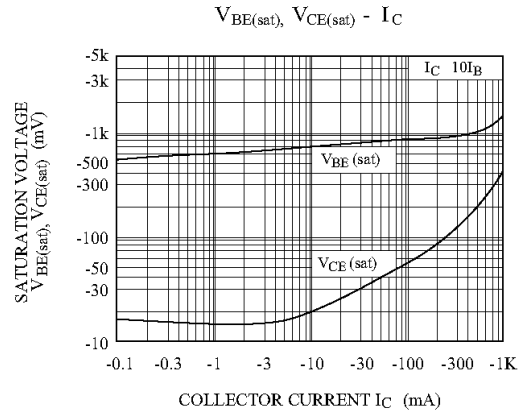
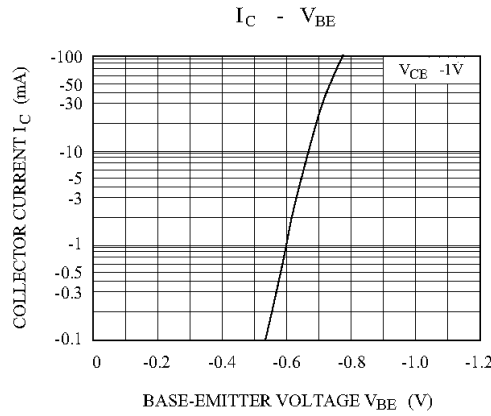
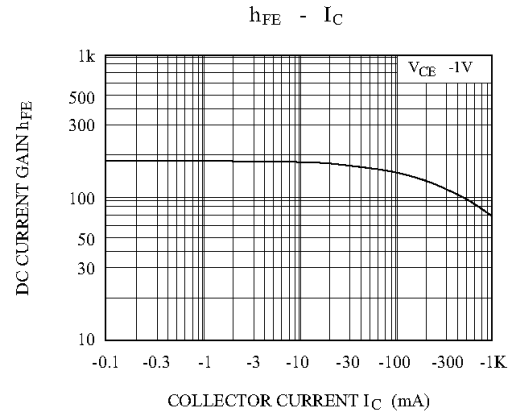
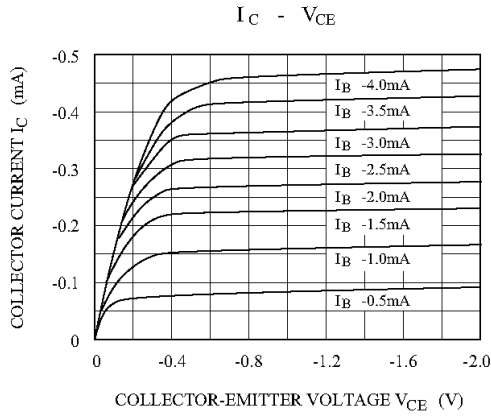


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# MMBT8550 (1.5A)



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