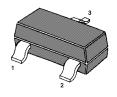
MMBT8550

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications.

As complementary type the NPN transistor MMBT8050 is recommended.



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

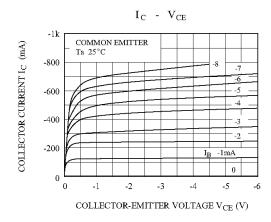
Absolute Maximum Ratings (T_a = 25 °C)

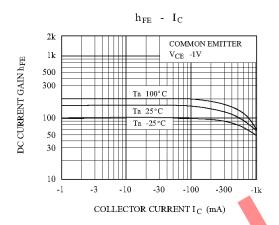
Parameter	Symbol	Value	Unit	
Collector Base Voltage	-V _{CBO}	40	V	
Collector Emitter Voltage	-V _{CEO}	25	<	
Emitter Base Voltage	-V _{EBO}	6	V	
Collector Current	-l _C	600	mA	
Power Dissipation	P _{tot}	350	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{Stg}	- 55 to + 150	°C	

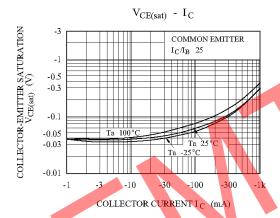
Characteristics at T_a = 25 °C

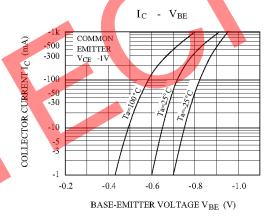
Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at -V _{CE} = 1 V, -I _C = 100 mA	MMBT8550C MMBT8550D	h _{FE}	100 160	-	250 400	
at $-V_{CE} = 1 \text{ V}$, $-I_{C} = 500 \text{ mA}$		h _{FE}	40	ı	-	-
Collector Base Cutoff Current at -V _{CB} = 35 V		-I _{CBO}	1	-	100	nA
Collector Base Breakdown Voltage at -I _C = 10 μA		-V _{(BR)CBO}	40	-	-	V
Collector Emitter Breakdown Voltage at -I _C = 2 mA		-V _{(BR)CEO}	25	-	-	V
Emitter Base Breakdown Voltage at -I _E = 100 μA		-V _{(BR)EBO}	6	-	-	V
Collector Emitter Saturation Voltage at -I _C = 500 mA, -I _B = 50 mA		-V _{CE(sat)}	ı	ı	0.5	V
Base Emitter Saturation Voltage at $-I_C = 500 \text{ mA}$, $-I_B = 50 \text{ mA}$		-V _{BE(sat)}	-	-	1.2	V
Gain Bandwidth Product at $-V_{CE} = 5 \text{ V}$, $-I_{C} = 10 \text{ mA}$		f _T	-	100	-	MHz

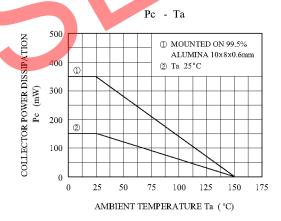














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