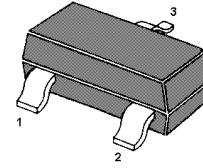


# MMBT8550 (2A)

## PNP Silicon Epitaxial Planar Transistor

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

The transistor is subdivided into two groups C and D according to its DC current gain.



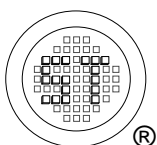
1.BASE 2.EMITTER 3.COLLECTOR  
TO-236 Plastic Package

### 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	$-I_C$	2	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 $-V_{CE} = 1\text{ V}$ , $-I_C = 5\text{ mA}$ at $-V_{CE} = 1\text{ V}$ , $-I_C = 100\text{ mA}$ at $-V_{CE} = 1\text{ V}$ , $-I_C = 1.5\text{ A}$	$h_{FE}$	45	-	-
	$h_{FE}$	100	250	-
	$h_{FE}$	160	300	-
	$h_{FE}$	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 $-I_C = 1.5\text{ A}$ , $-I_B = 100\text{ mA}$	$-V_{CE(sat)}$	-	0.5	V
Base Emitter Saturation Voltage at $-I_C = 1.5\text{ A}$ , $-I_B = 100\text{ mA}$	$-V_{BE(sat)}$	-	1.2	V
Base Emitter Voltage at $-V_{CE} = 1\text{ V}$ , $-I_C = 10\text{ mA}$	$-V_{BE(on)}$	-	1	V
Transition Frequency at $-V_{CE} = 10\text{ V}$ , $-I_C = 50\text{ mA}$	$f_T$	100	-	MHz



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ISO/TS 16949 : 2009 Certificate No. 18071300  
ISO14001 : 2004 Certificate No. 7116  
ISO 9001 : 2008 Certificate No. 50719410  
BS-QHSAS 18001 : 2007 Certificate No. 7116  
IECQ QC 080000 Certificate No. PRC-18P4-1483

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