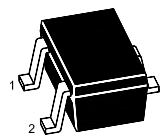


# MMBT8550W (1.5A)

## PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications



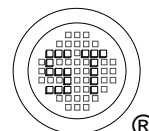
1.Base 2.Emitter 3.Collector  
SOT-323 Plastic Package

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

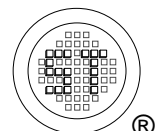
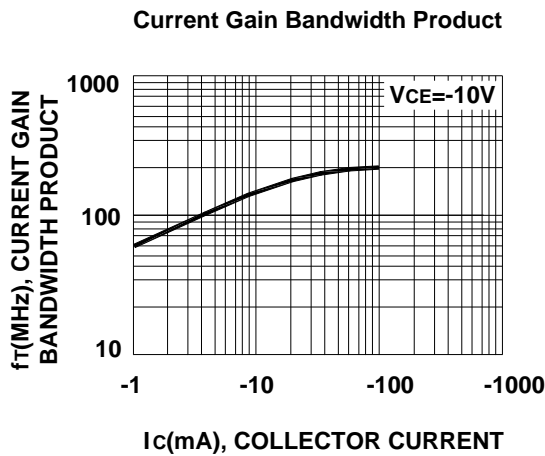
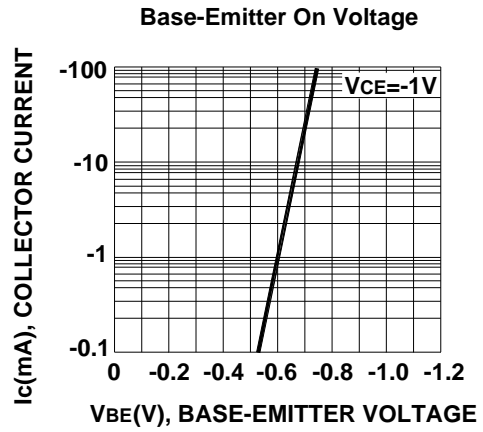
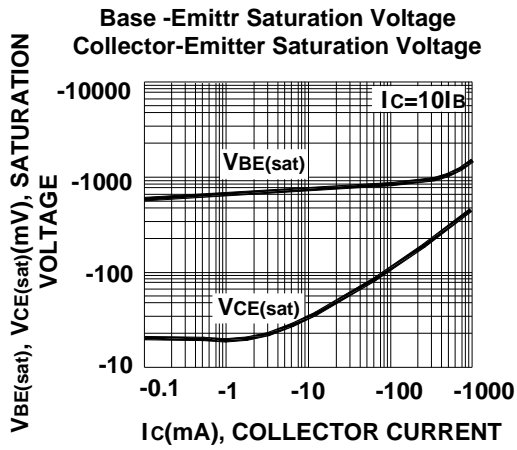
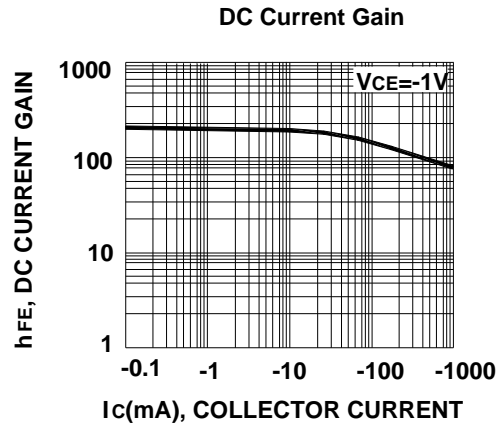
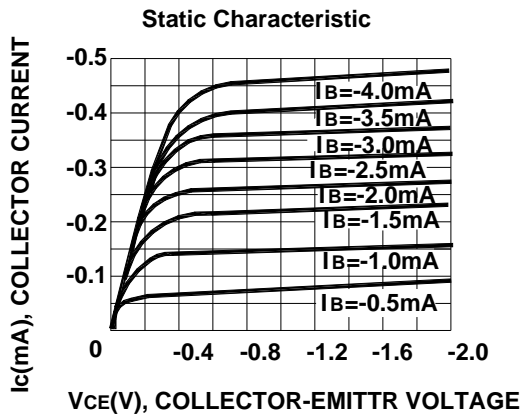
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	40	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	25	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Peak Collector Current	$-I_{\text{CM}}$	1.5	A
Total Power Dissipation	$P_{\text{tot}}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{Stg}}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $-V_{\text{CE}} = 1\text{ V}$ , $-I_{\text{C}} = 100\text{ mA}$  at $-V_{\text{CE}} = 1\text{ V}$ , $-I_{\text{C}} = 800\text{ mA}$	$h_{\text{FE}}$	100	250	-
	$h_{\text{FE}}$	160	400	-
	$h_{\text{FE}}$	40	-	-
Collector Base Voltage at $-I_{\text{C}} = 100\text{ }\mu\text{A}$	$-V_{\text{CBO}}$	40	-	V
Collector Emitter Voltage at $-I_{\text{C}} = 100\text{ }\mu\text{A}$	$-V_{\text{CEO}}$	25	-	V
Emitter Base Voltage at $-I_{\text{E}} = 100\text{ }\mu\text{A}$	$-V_{\text{EBO}}$	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 $-V_{\text{CE}} = 10\text{ V}$ , $-I_{\text{C}} = 50\text{ mA}$ , $f = 30\text{ MHz}$	$f_{\text{T}}$	100	-	MHz



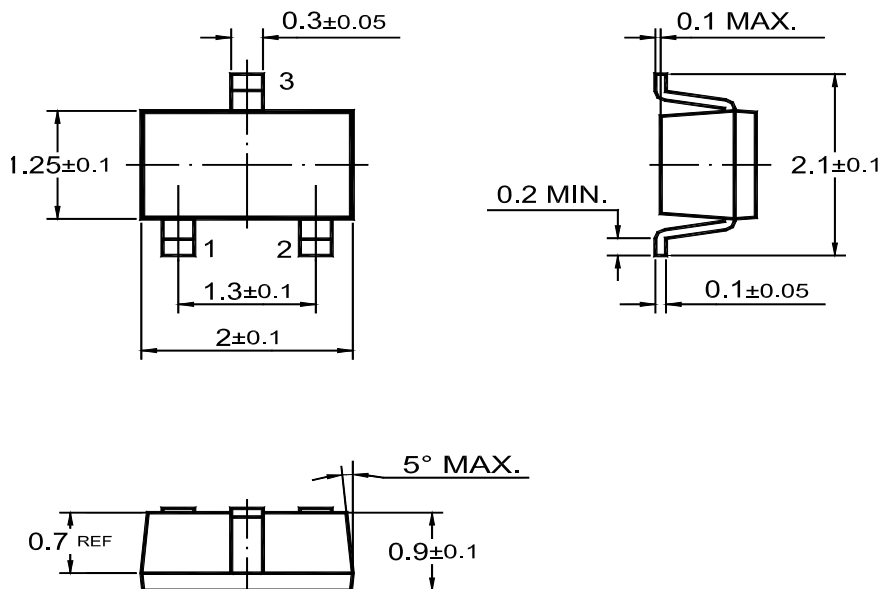
# MMBT8550W (1.5A)



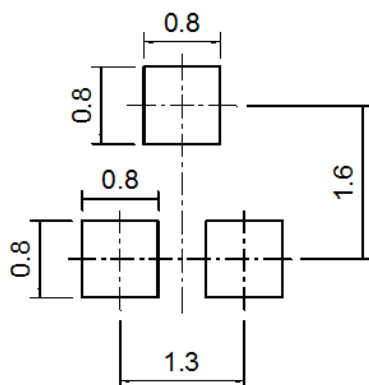
# MMBT8550W (1.5A)

## Package Outline (Dimensions in mm)

SOT-323



## Recommended Soldering Footprint



## Packing informatio

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-323	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

