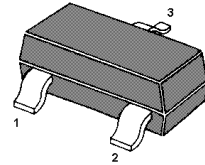


MMBT8550

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications.

As complementary type the NPN transistor MMBT8050 is recommended.



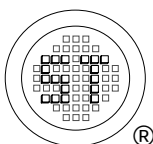
1.BASE 2.EMITTER 3.COLLECTOR
SOT-23 Plastic Package

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

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	$-I_{\text{C}}$	600	mA
Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_{j}	150	$^\circ\text{C}$
Storage Temperature Range	T_{s}	- 55 to + 150	$^\circ\text{C}$

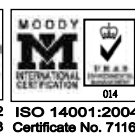
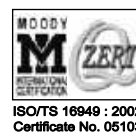
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 100\text{ mA}$ at $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 500\text{ mA}$	MMBT8550C h_{FE}	100	-	250	-
	MMBT8550D h_{FE}	160	-	400	-
	h_{FE}	40	-	-	-
Collector Base Cutoff Current at $-V_{\text{CB}} = 35\text{ V}$	$-I_{\text{CBO}}$	-	-	100	nA
Collector Base Breakdown Voltage at $-I_{\text{C}} = 10\text{ }\mu\text{A}$	$-V_{(\text{BR})\text{CBO}}$	40	-	-	V
Collector Emitter Breakdown Voltage at $-I_{\text{C}} = 2\text{ mA}$	$-V_{(\text{BR})\text{CEO}}$	25	-	-	V
Emitter Base Breakdown Voltage at $-I_{\text{E}} = 100\text{ }\mu\text{A}$	$-V_{(\text{BR})\text{EBO}}$	6	-	-	V
Collector Emitter Saturation Voltage at $-I_{\text{C}} = 500\text{ mA}$, $-I_{\text{B}} = 50\text{ mA}$	$-V_{\text{CE(sat)}}$	-	-	0.5	V
Base Emitter Saturation Voltage at $-I_{\text{C}} = 500\text{ mA}$, $-I_{\text{B}} = 50\text{ mA}$	$-V_{\text{BE(sat)}}$	-	-	1.2	V
Gain Bandwidth Product at $-V_{\text{CE}} = 5\text{ V}$, $-I_{\text{C}} = 10\text{ mA}$	f_{T}	-	100	-	MHz

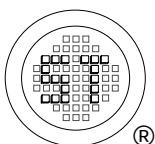
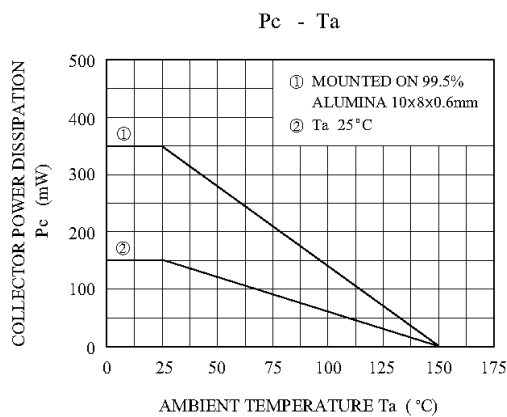
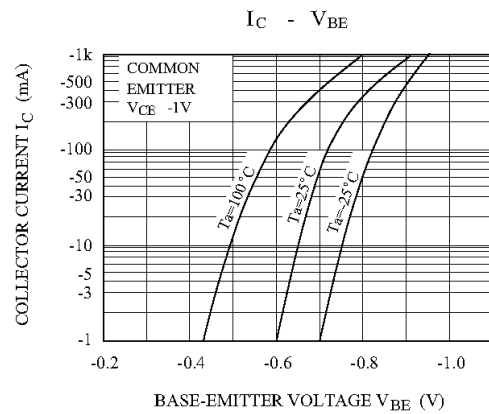
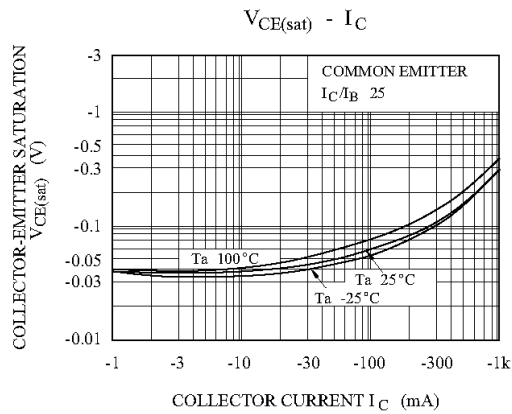
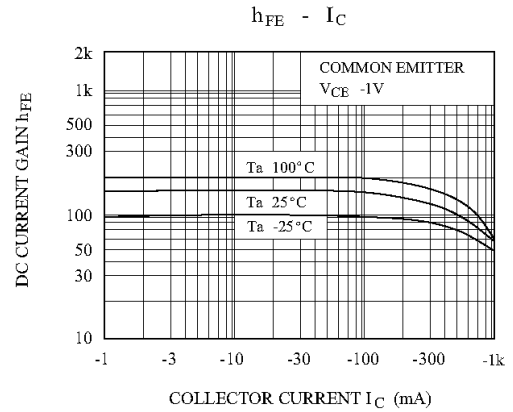
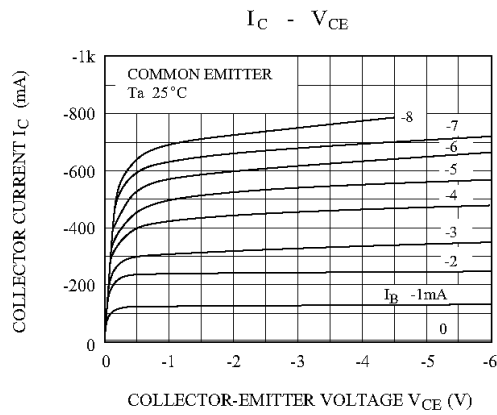


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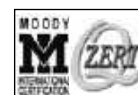


Dated : 11/04/2008



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ISO/TS 18949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 11/04/2008