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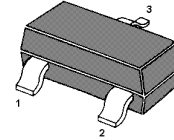
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MMBT8050 (2A)

NPN 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.



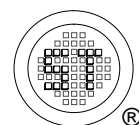
1.BASE 2.EMITTER 3.COLLECTOR
SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V _{CEO}	25	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	°C
Storage Temperature Range	T _s	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at V _{CE} = 1 V, I _C = 5 mA at V _{CE} = 1 V, I _C = 100 mA at V _{CE} = 1 V, I _C = 1.5 A	h _{FE}	45	-	-
	h _{FE}	100	250	-
	h _{FE}	160	300	-
	h _{FE}	40	-	-
Collector Base Cutoff Current at V _{CB} = 35 V	I _{CBO}	-	100	nA
Emitter Base Cutoff Current at V _{EB} = 6 V	I _{EBO}	-	100	nA
Collector Base Breakdown Voltage at I _C = 100 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 = 1.5 A, I _B = 100 mA	V _{CE(sat)}	-	0.5	V
Base Emitter Saturation Voltage at I _C = 1.5 A, I _B = 100 mA	V _{BE(sat)}	-	1.2	V
Base Emitter Voltage at V _{CE} = 1 V, I _C = 10 mA	V _{BE(on)}	-	1	V
Transition Frequency at V _{CE} = 10 V, I _C = 50 mA	f _T	100	-	MHz



Dated : 11/04/2008