

MMBT8050 NPN Transistor

Features

- For Switching and Amplifier Applications.
- As Complementary Type of the PNP Transistor MMBT8550 is Recommended.





1.Base 2.Emitter 3.Collector

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Collector Base Voltage	Vсво	40	V
Collector Emitter Voltage	VCEO	25	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	lc	600	mA
Power Dissipation	PD	350	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	Tstg	-55 to 150	°C

Electrical Characteristics

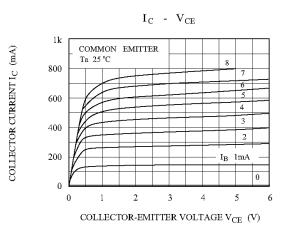
Ratings at 25°C ambient temperature unless otherwise specified.

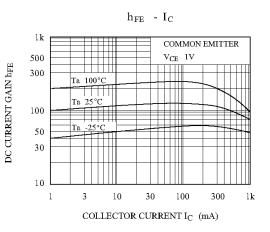
Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at Vcɛ = 1 V, lc = 100 mA Current Gain Group C [100 160		250 400	
at Vcɛ = 1 V, lc = 500 mA		40		-	
Collector Base Cutoff Current at V _{CB} = 35 V	І _{сво}	-	-	100	nA
Collector Base Breakdown Voltage at Ic = 10 μΑ	V _{(BR)CBO}	40	-	-	V
Collector Emitter Breakdown Voltage at Ic = 2 mA	V(BR)CEO	25	-	-	V
Emitter Base Breakdown Voltage at I⊧ = 100 µA	V _{(BR)EBO}	6	-	-	V
Collector Emitter Saturation Voltage at Ic = 500 mA, IB = 50 mA	V _{CE(sat)}	-	-	0.5	V
Base Emitter Saturation Voltage at I _C = 500 mA, I _B = 50 mA	V _{BE(sat)}	-	-	1.2	V
Transition Frequency at Vcɛ = 5 V, Ic = 10 mA	Fτ	-	100	-	MHz

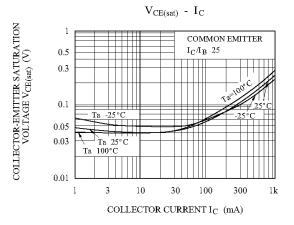


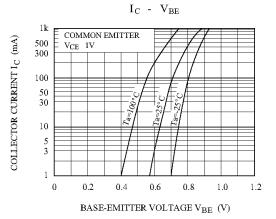
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Electrical Characteristics Curves

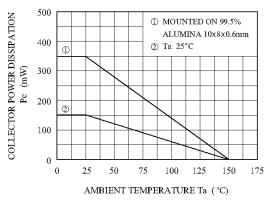






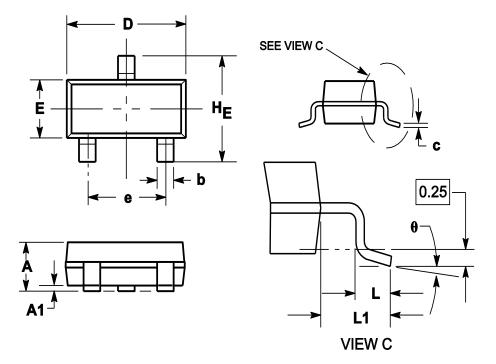








Package Outline(SOT-23)



Querra ha a l	Dimensions in millimeter				
Symbol	Min.	Тур.	Max.		
А	0.900	1.025	1.150		
A1	0.000	0.050	0.100		
b	0.300	0.400	0.500		
с	0.080	0.115	0.150		
D	2.800	2.900	3.000		
E	1.200	1.300	1.400		
HE	2.250	2.400	2.550		
е	1.800	1.900	2.000		
L1	0.550REF				
L	0.300		0.500		
θ	0°		8°		

Device	Package	Reel Dimension (inch)	Shipping
MMBT8050	SOT-23	7	3,000

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