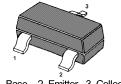
MMBT9013

NPN Silicon Epitaxial Planar Transistors

for switching and amplifier applications.

As complementary types the PNP transistor MMBT9012 is recommended.



1. Base 2. Emitter 3. Collector TO-236 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	40	V
Collector Emitter Voltage	$V_{\sf CEO}$	30	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	Ic	500	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Characteristics at Ta = 25 °C	 	 		
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at V_{CE} = 1 V, I_C = 50 mA Current Gain Group G H at V_{CE} = 1 V, I_C = 500 mA	h _{FE} h _{FE} h _{FE}	100 160 40	250 400 -	
Collector Base Cutoff Current at V _{CB} = 35 V	I _{CBO}	-	100	nA
Emitter Base Cutoff Current at $V_{EB} = 5 \text{ V}$	I _{EBO}	-	100	nA
Collector Bae Breakdown Voltage at I_C = 100 μA	$V_{(BR)CBO}$	40	-	V
Collector Emitter Breakdown Voltage at I _C = 1 mA	V _{(BR)CEO}	30	-	V
Emitter Base Breakdown Voltage at I_E = 100 μ A	$V_{(BR)EBO}$	5	-	V
Collector Emitter Saturation Voltage at I_C = 500 mA, I_B = 50 mA	$V_{CE(sat)}$	-	0.6	V
Base Emitter Saturation Voltage at I_C = 500 mA, I_B = 50 mA	$V_{BE(sat)}$	-	1.2	V
Base Emitter Voltage at $V_{CE} = 1 \text{ V}$, $I_{C} = 100 \text{ mA}$	V_{BE}	-	1	V
Gain Bandwidth Product at $V_{CE} = 6 \text{ V}$, $I_{C} = 20 \text{ mA}$	f _T	100	-	MHz





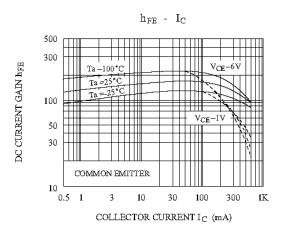


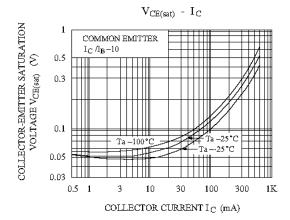


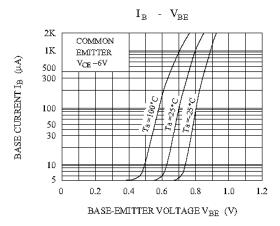


SOTS 18949: 2009 | ISO 14001 : 2004 | ISO 8001 : 2008 | BSOHRAS 18001: 2007 | IE

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