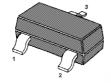
MMBT3904

NPN Silicon General Purpose Transistor

for switching and amplifier applications.



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}	60	V
Collector Emitter Voltage	V _{CEO}	40	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	Ic	200	mA
Power Dissipation	P _{tot}	350	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C



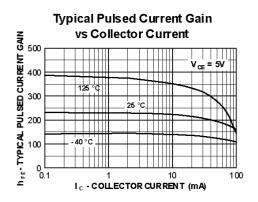
MMBT3904

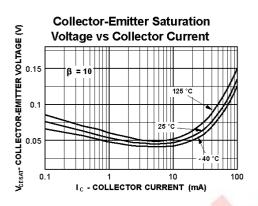
Characteristics at T_a = 25 °C

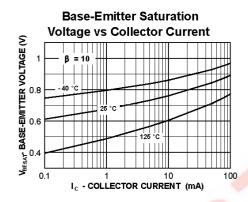
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 1$ V, $I_C = 0.1$ mA at $V_{CE} = 1$ V, $I_C = 1$ mA at $V_{CE} = 1$ V, $I_C = 10$ mA	h _{FE} h _{FE}	40 70 100	- - 300	- - -
at $V_{CE} = 1 \text{ V, } I_C = 50 \text{ mA}$ at $V_{CE} = 1 \text{ V, } I_C = 100 \text{ mA}$	h _{FE} h _{FE}	60 30	-	-
Collector Base Cutoff Current at V _{CB} = 30 V	I _{CBO}	-	50	nA
Emitter Base Cutoff Current at V _{EB} = 6 V	I _{EBO}	-	50	nA
Collector Base Breakdown Voltage at I _C = 10 µA	V _{(BR)CBO}	60	4	V
Collector Emitter Breakdown Voltage at I _C = 1 mA	V _{(BR)CEO}	40	. //	V
Emitter Base Breakdown Voltage at $I_E = 10 \mu A$	$V_{(BR)EBO}$	6	7	V
Collector Emitter Saturation Voltage at $I_C = 10$ mA, $I_B = 1$ mA at $I_C = 50$ mA, $I_B = 5$ mA	V _{CE(sat)}		0.2 0.3	V
Base Emitter Saturation Voltage at $I_C = 10$ mA, $I_B = 1$ mA at $I_C = 50$ mA, $I_B = 5$ mA	V _{BE(sat)}	0.65	0.85 0.95	V V
Current Gain Bandwidth Product at $V_{CE} = 20 \text{ V}$, $I_C = 10 \text{ mA}$, $f = 100 \text{ MHz}$	f⊤	300	-	MHz
Collector Output Capacitance at V _{CB} = 5 V, I _E = 0, f = 1 MHz	C _{ob}	-	4	pF
Delay Time at $V_{CC} = 3 \text{ V}$, $V_{BE} = 0.5 \text{ V}$, $I_C = 10 \text{ mA}$, $I_{B1} = 1 \text{ mA}$	t _d	-	35	ns
Rise Time at $V_{CC} = 3 \text{ V}$, $V_{BE} = 0.5 \text{ V}$, $I_C = 10 \text{ mA}$, $I_{B1} = 1 \text{ mA}$	t _r	-	35	ns
Storage Time at $V_{CC} = 3 \text{ V}$, $I_C = 10 \text{ mA}$, $I_{B1} = -I_{B2} = 1 \text{ mA}$	t _s	-	200	ns
Fall Time at $V_{CC} = 3 \text{ V}$, $I_C = 10 \text{ mA}$, $I_{B1} = -I_{B2} = 1 \text{ mA}$	t _f	-	50	ns

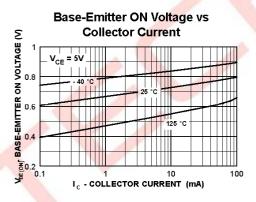


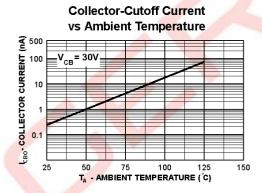
Typical Characteristics Curves

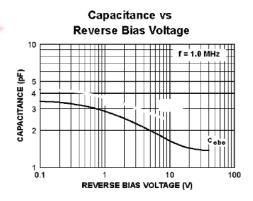


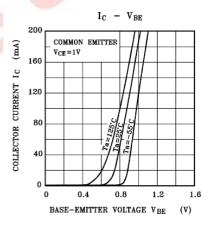


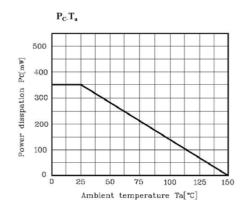














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