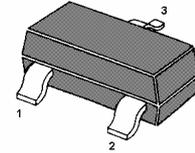


MMBTA56

PNP General Purpose Transistor for amplifier applications

On special request, these transistors can be manufactured in different pin configurations.

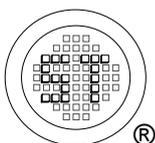


1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	80	V
Collector Emitter Voltage	$-V_{CES}$	80	V
Emitter Base Voltage	$-V_{EBO}$	4	V
Collector Current	$-I_C$	500	mA
Total Device Dissipation Derate above 25°C	P_{tot}	200 2.8	mW mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	T_j	-55 to +150	°C
Storage Temperature Range	T_s	-55 to +150	°C



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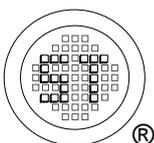
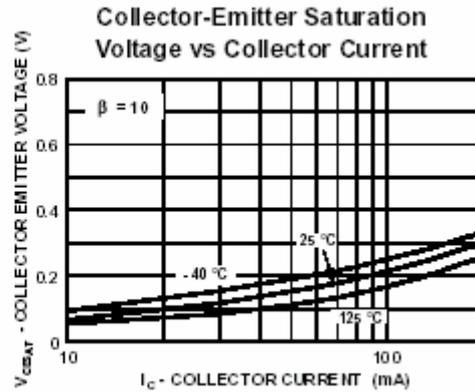
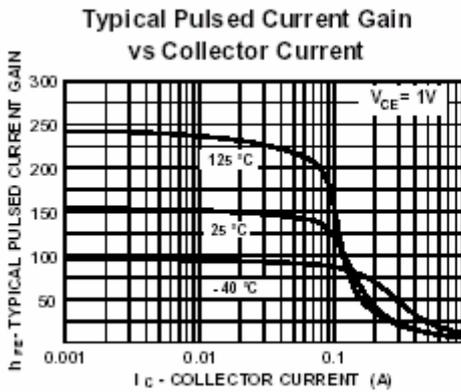


Dated : 20/10/2005

MMBTA56

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

	Symbol	Min.	Max.	Unit
DC Current Gain at $-I_C=10\text{mA}$, $-V_{CE}=1\text{V}$	h_{FE}	100	-	-
at $-I_C=100\text{mA}$, $-V_{CE}=1\text{V}$	h_{FE}	100	-	-
Collector Cutoff Current at $-V_{CB}=80\text{V}$	$-I_{CBO}$	-	0.1	μA
Collector Cutoff Current at $-V_{CE}=60\text{V}$	$-I_{CEO}$	-	0.1	μA
Collector Emitter Breakdown Voltage at $-I_C=1\text{mA}$	$-V_{(BR)CEO}$	80	-	V
Collector Base Breakdown Voltage at $-I_C=100\mu\text{A}$	$-V_{(BR)CBO}$	80	-	V
Emitter Base Breakdown Voltage at $-I_E=100\mu\text{A}$	$-V_{(BR)EBO}$	4	-	V
Collector Emitter Saturation Voltage at $-I_C=100\text{mA}$, $-I_B=10\text{mA}$	$-V_{CE(sat)}$	-	0.25	V
Base Emitter On Voltage at $-I_C=100\text{mA}$, $-V_{CE}=1\text{V}$	$-V_{BE(on)}$	-	1.2	V
Current Gain – Bandwidth Product at $-I_C=100\text{mA}$, $-V_{CE}=1\text{V}$, $f=100\text{MHz}$	f_T	50	-	MHz



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ISO/TS 16949:2002
Certificate No. 05103

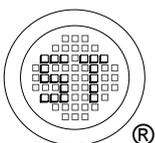
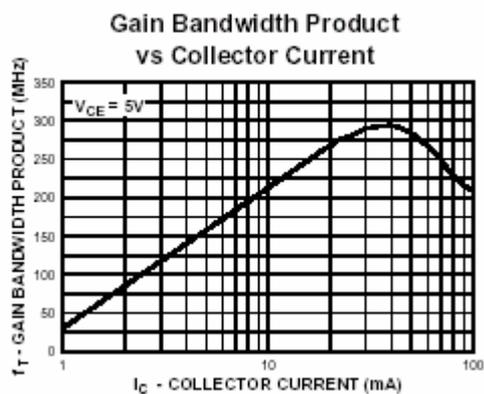
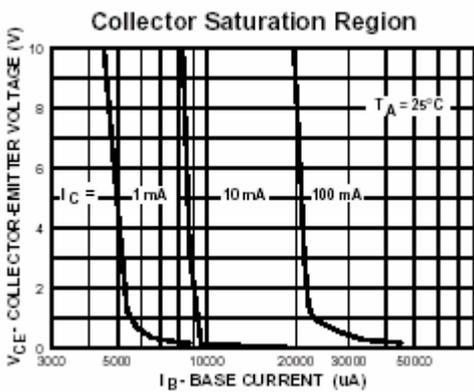
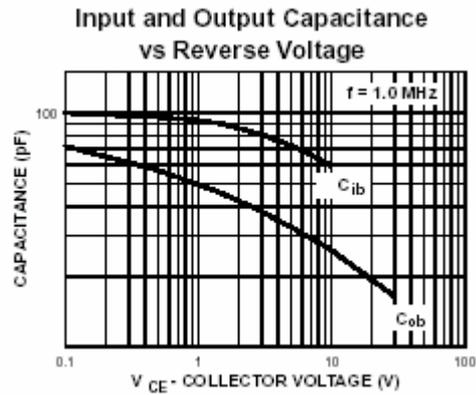
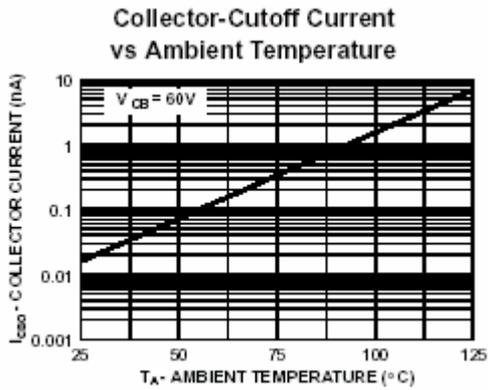
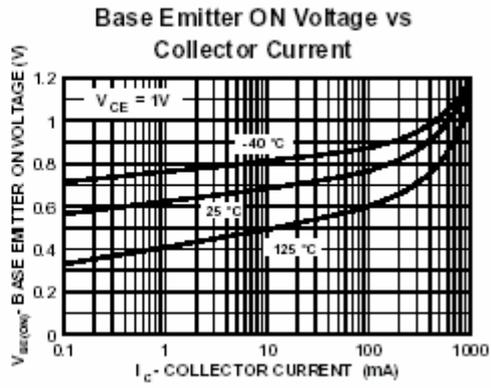
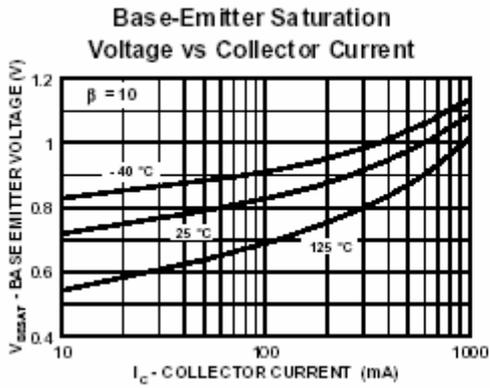


ISO 14001:2004
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