



# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

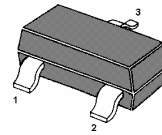
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## MMBTA56

**PNP General Purpose Transistor**  
for amplifier applications

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

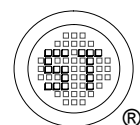


1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

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

	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 $25^\circ\text{C}$	$P_{tot}$	200 2.8	mW mW/ $^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_j$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_S$	-55 to +150	$^\circ\text{C}$



Dated : 20/10/2005



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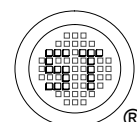
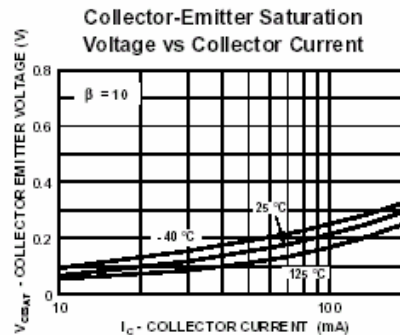
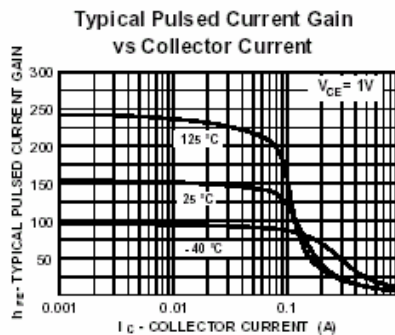
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### Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	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	$\mu\text{A}$
Collector Cutoff Current				
at $-V_{CE}=60\text{V}$	$-I_{CEO}$	-	0.1	$\mu\text{A}$
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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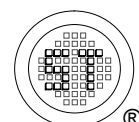
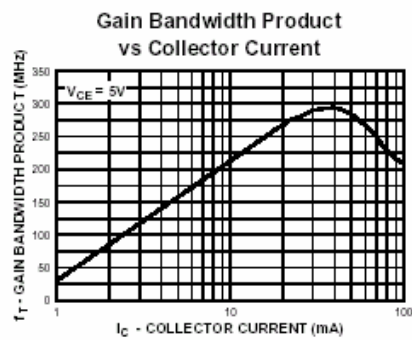
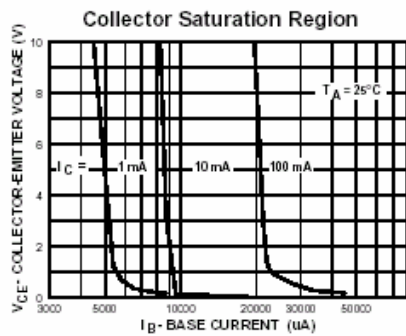
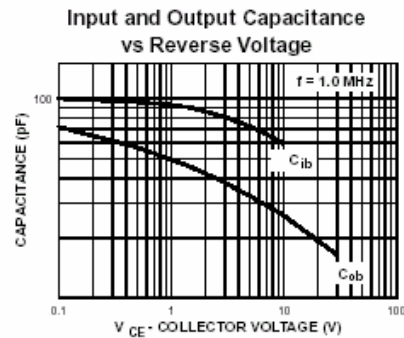
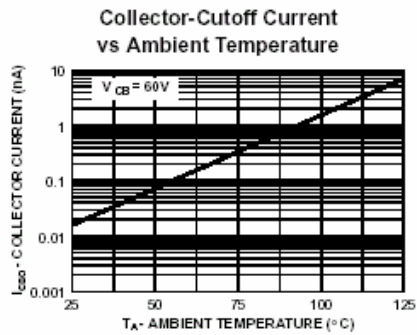
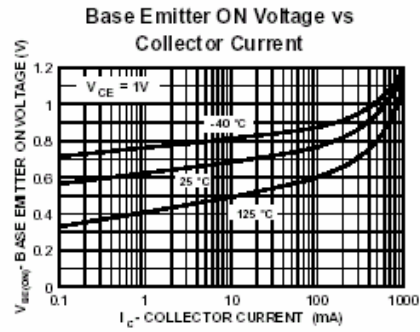
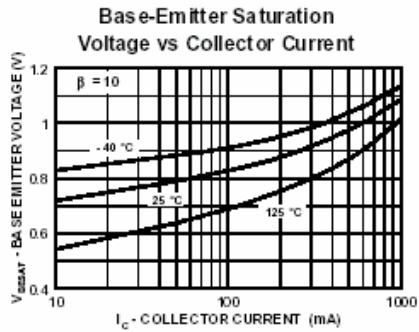
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