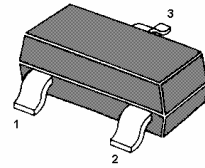


# MMBTA63 / MMBTA64

## PNP Silicon Epitaxial Planar Transistor

for general purpose application, darlington transistor



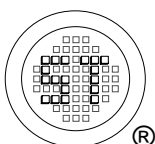
1.BASE 2.EMITTER 3.COLLECTOR  
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	30	V
Collector Emitter Voltage	$-V_{CEO}$	30	V
Emitter Base Voltage	$-V_{EBO}$	10	V
Collector Current	$-I_C$	500	mA
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 150	$^\circ\text{C}$

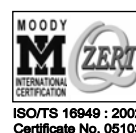
### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at $-V_{CE} = 5\text{ V}$ , $-I_C = 10\text{ mA}$	MMBTA63	$h_{FE}$	5000	-
at $-V_{CE} = 5\text{ V}$ , $-I_C = 10\text{ mA}$	MMBTA64	$h_{FE}$	10000	-
at $-V_{CE} = 5\text{ V}$ , $-I_C = 100\text{ mA}$	MMBTA63	$h_{FE}$	10000	-
at $-V_{CE} = 5\text{ V}$ , $-I_C = 100\text{ mA}$	MMBTA64	$h_{FE}$	20000	-
Collector Cutoff Current at $-V_{CB} = 30\text{ V}$	$-I_{CBO}$	-	100	nA
Emitter Cutoff Current at $-V_{EB} = 10\text{ V}$	$-I_{EBO}$	-	100	nA
Collector Emitter Breakdown Voltage at $-I_C = 100\text{ }\mu\text{A}$	$-V_{(BR)CEO}$	30	-	V
Collector Emitter Saturation Voltage at $-I_C = 100\text{ mA}$ , $-I_B = 0.1\text{ mA}$	$-V_{CE(sat)}$	-	1.5	V
Base Emitter On Voltage at $-V_{CE} = 5\text{ V}$ , $-I_C = 100\text{ mA}$	$-V_{BE(on)}$	-	2	V
Transition Frequency at $-V_{CE} = 5\text{ V}$ , $I_E = 10\text{ mA}$	$f_T$	125	-	MHz



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ISO/TS 16949 : 2002  
Certificate No. 05103



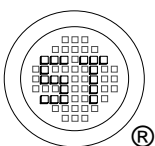
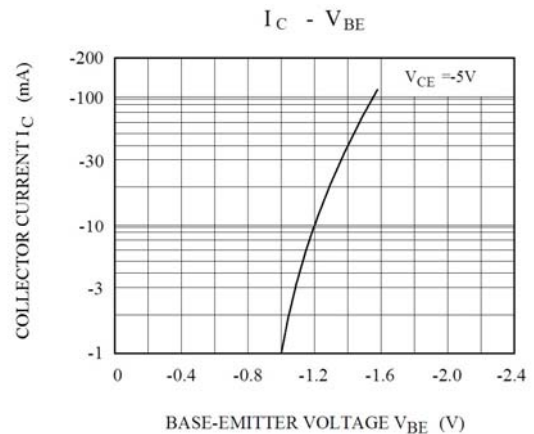
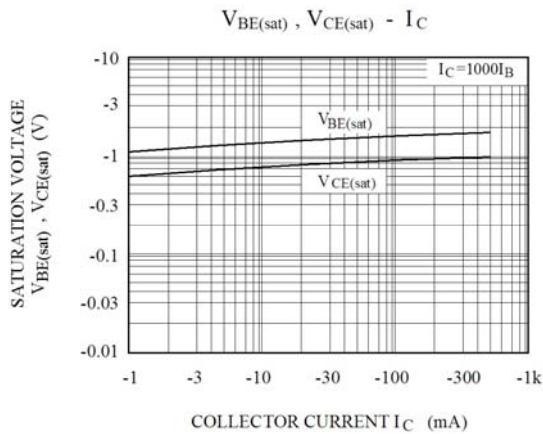
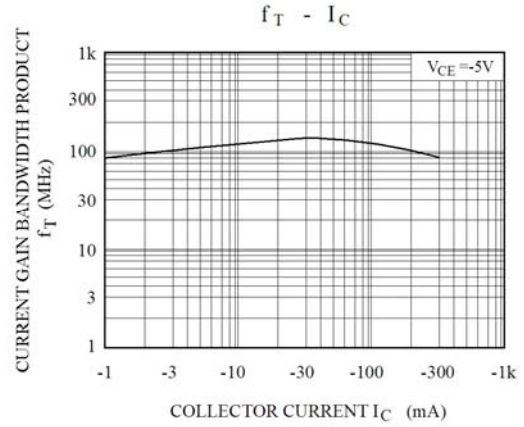
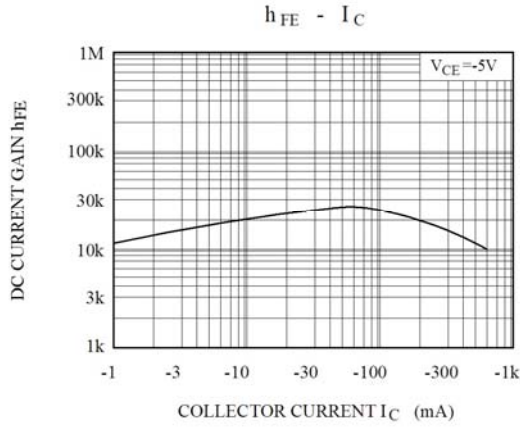
ISO 14001:2004  
Certificate No. 7116



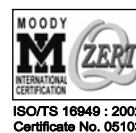
ISO 9001:2000  
Certificate No. 0506098

Dated : 21/12/2006

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