SINLOON®

SOT-23 塑封式晶體管

PNP MMBT3906

Plastic-Encapsulate Transistors SOT-23

☐ **FEATURE:**

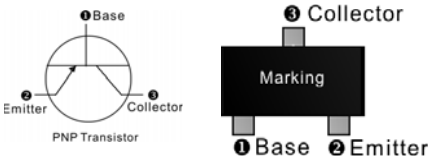
- ◆ Unitary to make use of …
- ◆ Commplementary to NPN MMBT3904

Figure

☐ **MECHANICAL CHARACTERISTICS:**

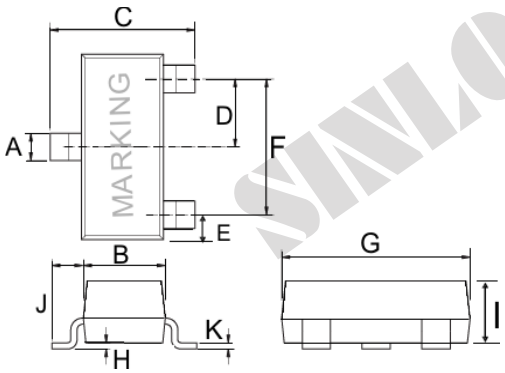
- ◆ Case: SOT-23 Molded Plastic
- ◆ Weight: 0.01 Grams (approx)
- ◆ Marking: Body top (2A)
- ◆ Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- ◆ Mounting: Position any

☐ **PNP MMBT3906** Top View



☐ **DIMENSION:** mm

SOT-23		
Dim	Min	Max
A	0.30	0.50
B	1.19	1.40
C	2.10	2.50
D	0.89	1.05
E	0.45	0.61
F	1.78	2.05
G	2.65	3.05
H	0.01	0.15
I	0.89	1.10
J	0.45	0.61
K	0.08	0.18



☐ **Maximum Ratings** @T_A=25℃ unless otherwise noted

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-0.2	mA
CollectorPower Dissipation	P_C	0.2	mW
Thermal Resistance From Junction to Ambient	$T_{\theta JA}$	625	℃/W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{stg}	-55~150	℃

☐ **Classification of** $h_{FE(1)}$

HFE	100-300	
RANK	L	H
RANGE	100-200	200-300

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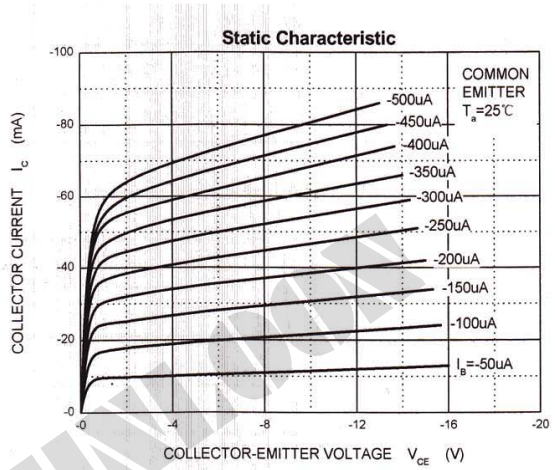
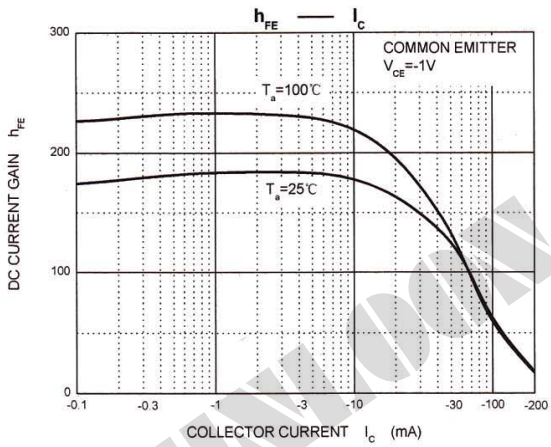
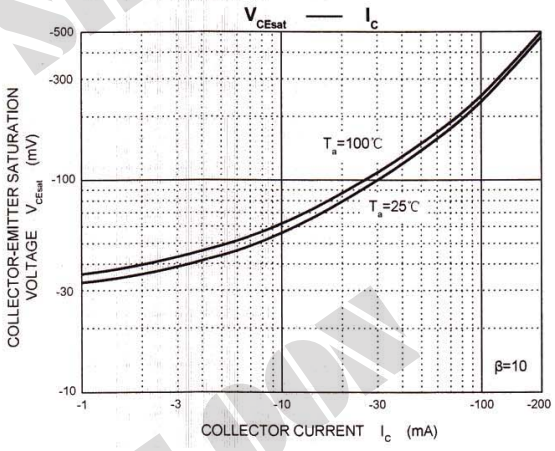
☐ **Electrical Characteristics** T_{amb}=25℃ unless otherwise specified

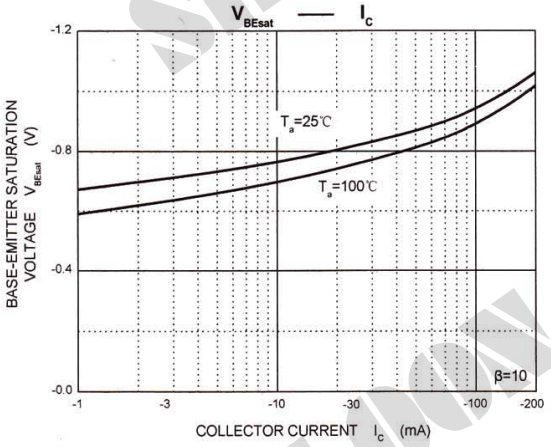
Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Collector-Base Breakdown voltage	$V(BR)_{CBO}$	I_C=10μA,I_E=0	-40	---	V
Collector-Emitter Breakdown voltage	$V(BR)_{CEO*}$	I_C=1mA,I_B=0	-40	---	V
Emitter-Base Breakdown voltage	$V(BR)_{EBO}$	I_E=10μA,I_C=0	-5	---	V
Collector cut-off current	I_{CBO}	V_{CB}=-40V,I_E=0	---	-100	nA
	I_{CEX}	V_{CE}=-30V,$V_{BE(off)}$=-3V	---	-50	nA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V, I_C=0	---	-100	nA
DC Current gain	$h_{FE(1)}$	V_{CE}=-1V,I_C=-10mA	100	300	---
	$h_{FE(2)}$	V_{CE}=-1V,I_C=-50mA	60	---	---
	$h_{FE(3)}$	V_{CE}=-1V,I_C=-100mA	30	---	---
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-50mA,I_B=-5mA	---	-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=-50mA,I_B=-5mA	---	-0.95	V
Transition ferquency	f_T	V_{CE}=-20V,I_C=-10mA f=100MH	300	---	MHz
Delay time	t_d	V_{CC}=-3V,$V_{BE(off)}$=-0.5V Ic=-	---	35	ns
Rise time	t_r	10mA, I_{B1}=-1mA	---		ns
Strage time	t_s	V_{CC}=-3V,I_C=-10mA I_{B1}=I_{B2}=-1r	---	225	ns
Fall time	t_f		---	75	ns

☐ **Typical Characterisitics**









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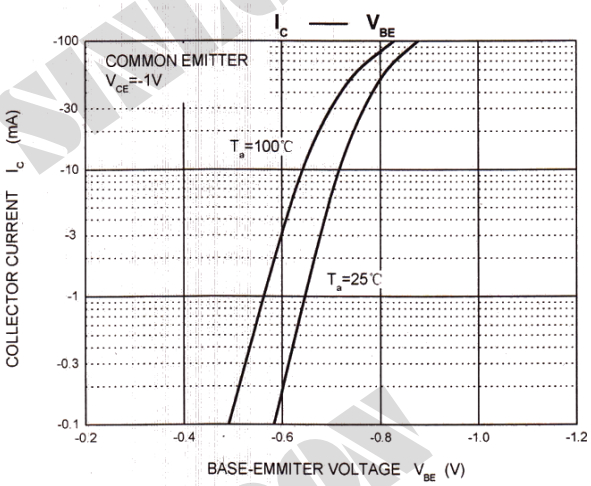
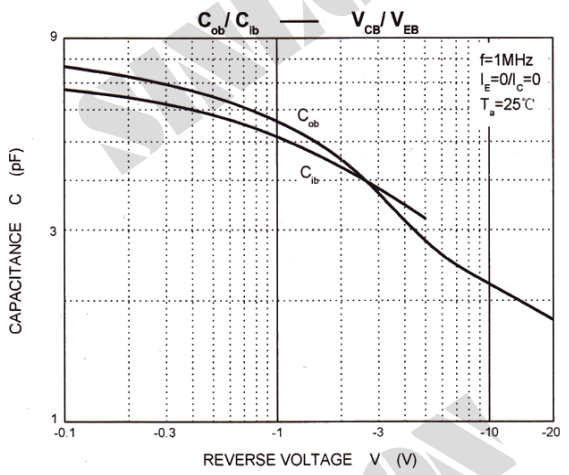
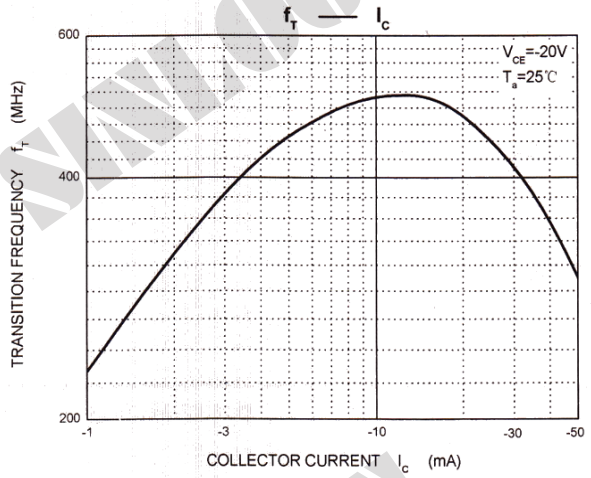
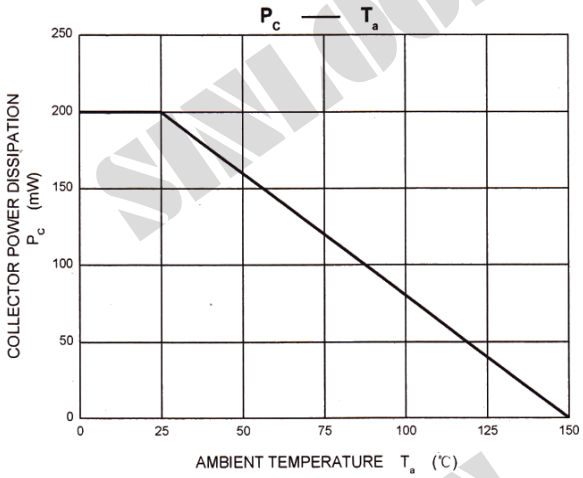
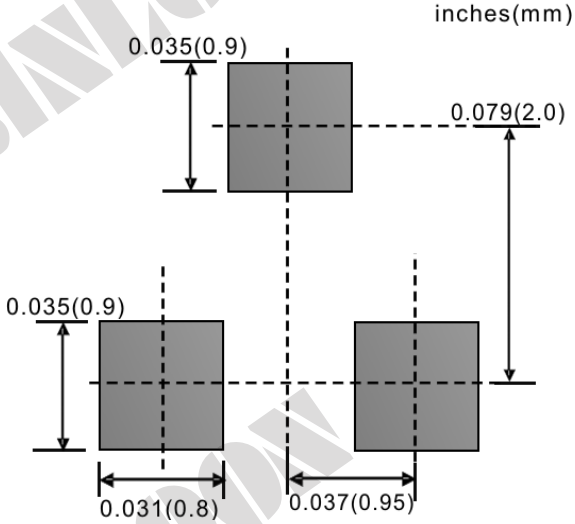








SOLDERING FOOTPRINT



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☐ **COMMON PACKING INFORMATION:**

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
MMBT3906	SOT-23	3000 Tape & Reel	180,000 Ctn	8.45Kg

Reel Diameter (Inch)	Quantity (Pcs)	Inner Box Size (mm)	Quantity	Carton Size (mm)	Quantity
7"	3000	L: 203 x W:203 x H:195	45,000 pcs	L:439 x W:438 x H:220	180,000pcs

Plastic Reel : Fig-1

Reel Qty: 3000 Reel

Inner Box: Fig-2

Inner Box Qty: 45,000 PCS

Carton Pack Fig-3

Carton Qty: 180,000 PCS

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Mayloon characteristic parameters of electronic product specification changes or updates without prior notice 。