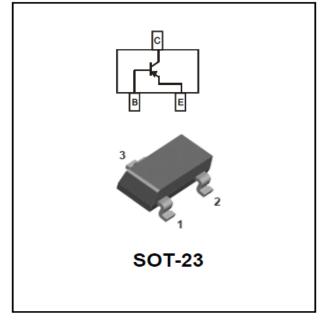
PNP General Purpose Amplifier

Features

•Marking:2A

•Moisure Sensitivity Level 1

•Epoxy meets UL-94 V-0 flammability rating



■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Collector-Emitter Voltage	V _{CEO}	V	-40
Collector-Base Voltage	V _{CBO}	V	-40
Emitter-Base Voltage	V _{EBO}	V	-5.0
Collector Current, Continuous	Ic	А	-0.2
Power Dissipation	P _D	mW	300
Operation Junction Temperature	TJ	°C	-55 to +150
Storage Temperature	T _{STG}	°C	-55 to +150

■Ordering Information (Example)

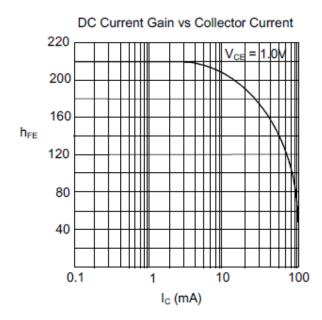
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBT3906	F2	Approximate 0.008	3000	30000	120000	7" reel

MMBT3906

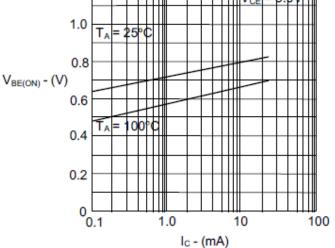
■Electrical Characteristics (Ta=25°C Unless otherwise specified)

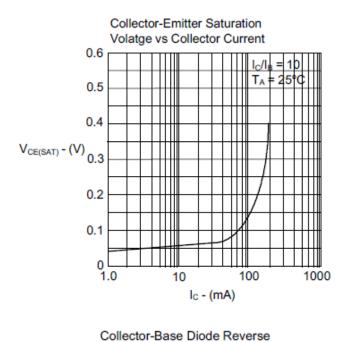
ltem	Symbol	Unit	Conditions	Min	Мах	
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	Vdc	I _C =1.0mAdc, I _B =0	-40		
Collector-Base Breakdown Voltage	V _{(BR)CBO}	Vdc	I _C =10uAdc, I _E =0	-40		
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	Vdc	I _E =10uAdc, I _C =0	-5.0		
Collector cut-off Current	I _{CBO}	uAdc	V _{CB} =-40Vdc, I _E =0		-0.1	
Collector cut-off Current	I _{CEX}	nAdc	V _{CE} =-30Vdc, V _{BE} =-3.0Vdc		-50	
Emitter cut-off Current	I _{EBO}	uAdc	V _{EB} =-5Vdc, I _C =0		-0.1	
			I _C =-10mAdc, V _{CE} =-1.0Vdc	100	300	
DC Current Gain	h _{FE}		I _C =-50mAdc, V _{CE} =-1.0Vdc	60		
			I _C =-100mAdc, V _{CE} =-1.0Vdc	30		
) (de	I _C =-10mAdc, I _B =-1.0mAdc		-0.25	
Collector-Emitter Saturation Voltage	VCE(sat)	Vdc	I _C =-50mAdc, I _B =-5.0mAdc		-0.4	
) (de	I _C =-10mAdc, I _B =-1.0mAdc	-0.65	-0.85	
Base-Emitter Saturation Voltage	VBE(sat)	Vdc	I _C =-50mAdc, I _B =-5.0mAdc		-0.95	
Output Capacitance	Cobo	pF	V _{CB} =-5.0Vdc, f=1.0MHz, I _E =0		4.5	
Input Capacitance	Cibo	pF	V_{EB} =-0.5Vdc, f=1.0MHz, I _C =0		10	
Current Gain-Bandwidth Product	f⊤	MHZ	I_{C} =-10mAdc, V_{CE} =-20Vdc, f=100MHz	250		
Noise Figure	NF	dB	V _{CE} =-5.0V, f=1.0kHz, I _C =- 100uA, R _S =1.0K		4.0	

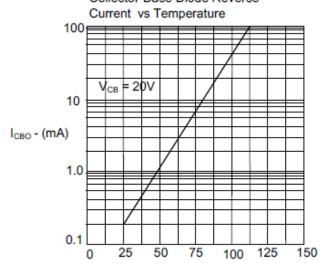
Characteristics(Typical)



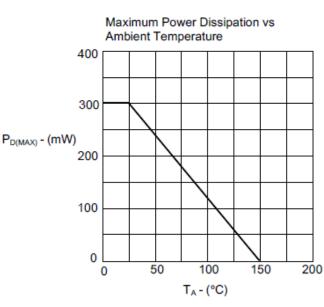
Base-Emitter ON Voltage vs Collector Current



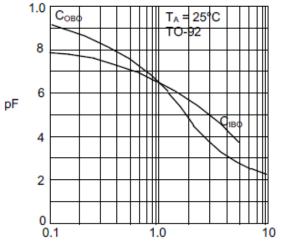




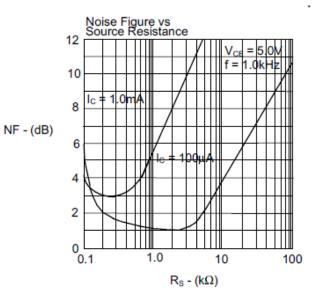


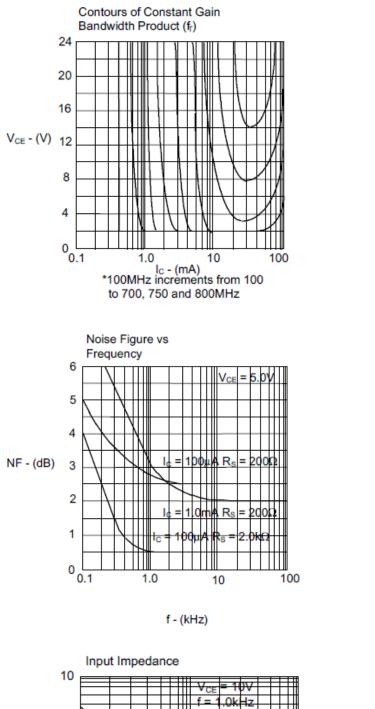


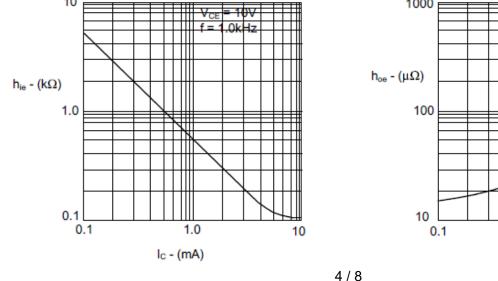
Common Base Open Circuit Input and Output Capacitance vs Reverse Bias Voltage

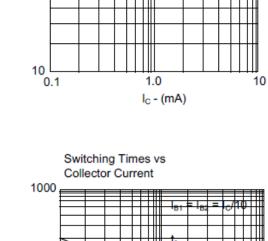


Volts - (V)









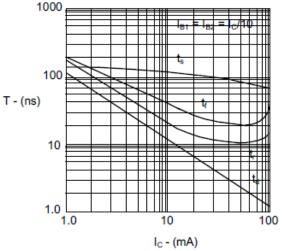
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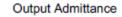
Current Gain

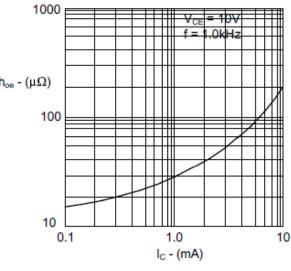
1000

100

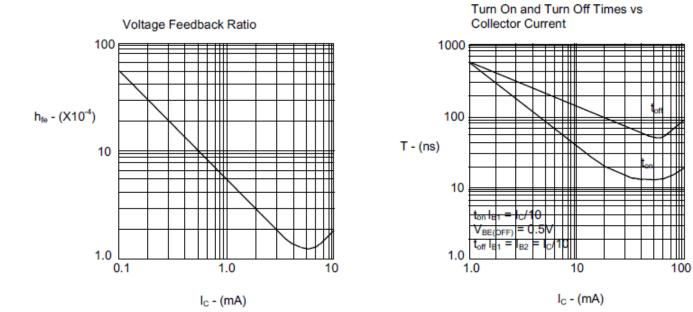
h_{fe}



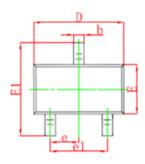


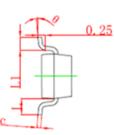


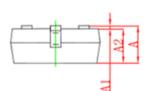
Yangzhou Yangjie Electronic Technology Co., Ltd.



■SOT-23 Package Outline Dimensions

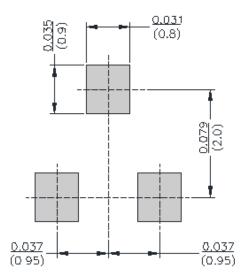






Symbo1	Dimensions Ir	n Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
A	0.900	1.150	0.035	0.045		
Al	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
c	0.100	0.200	0.004	0.008		
D	2.800	3.000	0.110	0.118		
Е	1.200	1. 400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
e	0.95	OTYP	0. 037TYP			
el	1.800	2.000	0.071	0.079		
L	0.55	OREF	0. 022REF			
L1	0.300	0.500	0.012	0.020		
θ	0°	8°	0°	8°		

■SOT-23Suggested Pad Layout



■Marking code



2A = Product Type Marking Code Y=Date Code Marking

Date code Key (2 years a cycle)

Year	2011											
Month	Jan	Feb	Mar	Apr	May	Jun	Ju	Aug	Sep	Oct	Nov	Dec
Code	J	0	L	С	К	В	Р	D	М	Е	G	F

Year	2012											
Month	Jan	Feb	Mar	Apr	May	Jun	Ju	Aug	Sep	Oct	Nov	Dec
Code	W	N	Y	Т	R	Н	Α	I	U	Х	Z	S



MMBT3906

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