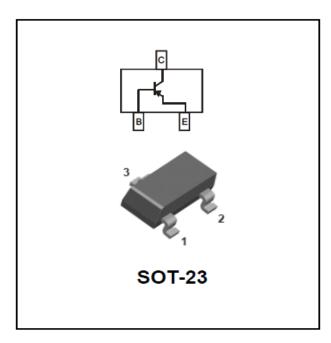




PNP General Purpose Amplifier



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- •Moisure Sensitivity Level 1
- •Marking:2A

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

ltem	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	Ic	Α	-0.2
Collector Power Dissipation	Pc	mW	300
Operation Junction Temperature	Tj	$^{\circ}$ 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

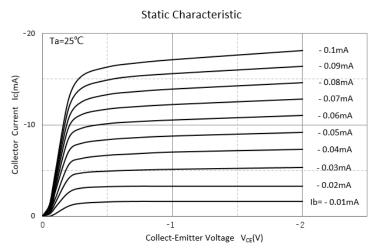


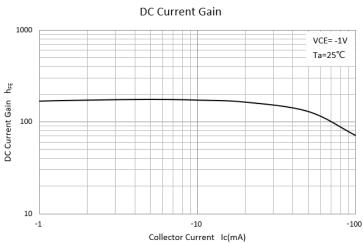
$\blacksquare \textbf{Electrical Characteristics} \ \, (T_{a} \text{=-} 25 ^{\circ} \text{C Unless otherwise specified})$

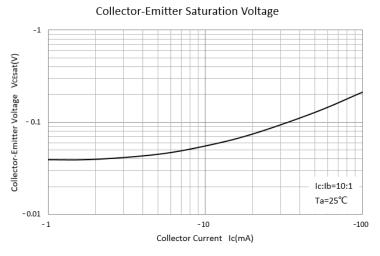
Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V _{CEO}	Vdc	I _C =-1.0mAdc, I _B =0	-40	
Collector-Base Breakdown Voltage	V _{CBO}	Vdc	I _C =-10uAdc, I _E =0	-40	
Emitter-Base Breakdown Voltage	V _{EBO}	Vdc	I _E =-10uAdc, I _C =0	-5.0	
Collector-base cut-off Current	I _{CBO}	uAdc	V _{CB} =-40Vdc, I _E =0		-0.1
Collector-emitter cut-off Current	I _{CEX}	nAdc	V _{CE} =-30Vdc, V _{BE} =-3.0Vdc		-50
Emitter-base 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	
Callantan Funition Caturation Valtage	V	Vdc	I _C =-10mAdc, I _B =-1.0mAdc		-0.25
Collector-Emitter Saturation Voltage	V _{CE(sat)}	vac	I _C =-50mAdc, I _B =-5.0mAdc		-0.4
Dana Craittan Catamatian Valtana	.,,	Vdc	I _C =-10mAdc, I _B =-1.0mAdc	-0.65	-0.85
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	Vuc	I _C =-50mAdc, I _B =-5.0mAdc		-0.95
Collector-base Output Capacitance	C _{obo}	pF	V _{CB} =-5.0Vdc, f=1.0MHz, I _E =0		4.5
Emitter-base Input Capacitance	Cibo	pF	V _{EB} =-0.5Vdc, f=1.0MHz, I _C =0		10
Transition frequency	f _T	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

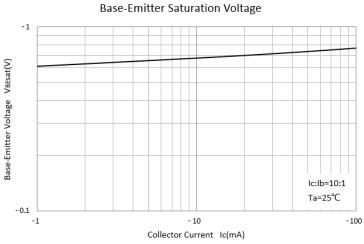


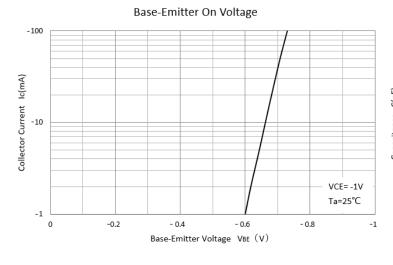
■ Characteristics(Typical)

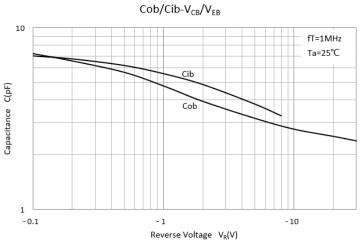






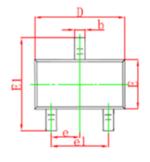


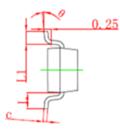


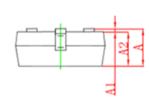




■SOT-23 Package Outline Dimensions

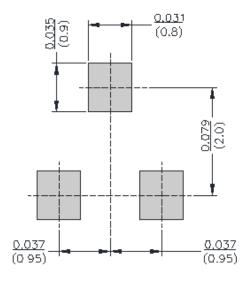






Symbol	Dimensions In	Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
A	0. 900	1. 150	0. 035	0. 045		
A1	0.000	0. 100	0.000	0.004		
A2	0.900	1.050	0.035	0. 041		
b	0, 300	0.500	0.012	0.020		
с	0. 100	0. 200	0.004	0.008		
D	2, 800	3.000	0. 110	0. 118		
Е	1. 200	1. 400	0. 047	0. 055		
E1	2. 250	2. 550	0.089	0. 100		
e	0. 95	OTYP	0. 037TYP			
e1	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-23 Soldering Footprint





■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	Jul	Aug	Sep	Oct	Nov	Dec
Code	J	0	L	С	K	В	Р	D	М	E	G	F

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



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