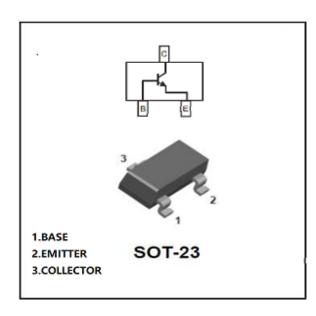




NPN General Purpose Amplifier transistors



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- •Moisture Sensitivity Level 1
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

• Package: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking:

MMBTA05	1H		
MMBTA06	1GM		

■Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Rating	Unit	
Collector-Base Voltage	V _{CBO} MMBTA05 MMBTA06	60 80	V	
Collector-Emitter Voltage	V _{CEO} MMBTA05 MMBTA06	60 80	V	
Emitter-Base Voltage	V_{EBO}	4	٧	
Collector Current	I _C	500	mA	
Collector Power Dissipation	P _C	300	mW	
Operation Junction Temperature	T _j	-55 to +150	℃	
Storage Temperature	T _{stg}	-55 to +150	℃	





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

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=100μA,IE=0 MMBTA05 MMBTA06	60 80	
Collector-emitter breakdown voltage	V _{CEO}	V	IC =1mA,IB=0 MMBTA05 MMBTA06	60 80	
Emitter-base breakdown voltage	V _{EBO}	V	IE=100μA,IC=0	4	
Collector-base cut-off current	I _{CBO}	nA	VCB=60V,IE=0		100
Collector-emitter cut-off current	I _{CEO}	nA	VCE=60V,IB=0		100
Emitter-base cut-off current	I _{EBO}	nA	VEB=3V,IC=0		100
DC current gain	h _{FE}		VCE=1V,IC=10mA	100	400
Do current gain	h _{FE}		VCE=1V,IC=100mA	100	
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=100mA,IB=10mA		0.25
Base-emitter saturation voltage	$V_{BE(sat)^*}$	V	IC=100mA,IB=10mA		1.2

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

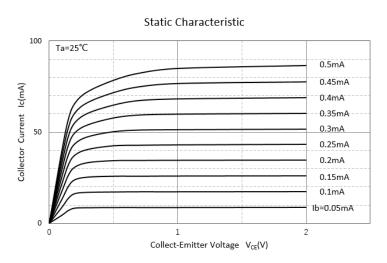
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	Ft	MHz	VCE=2V,IC=10mA,f=100MHz	100	

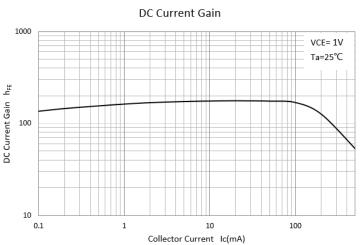
■Ordering Information (Example)

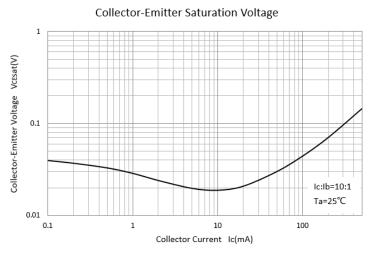
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBTA05 MMBTA06	F2	Approximate 0.008	3000	30000	120000	7" reel

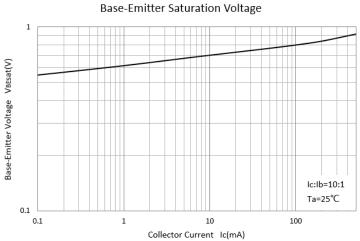


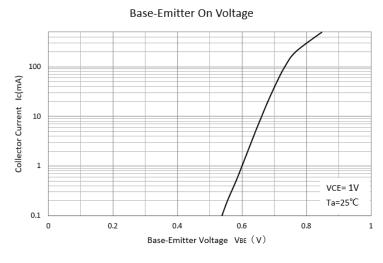
■Characteristics(Typical)

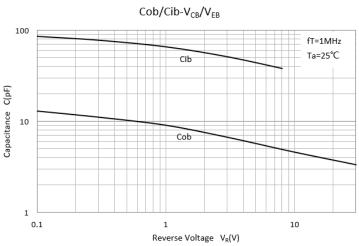








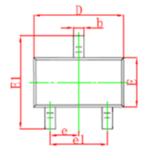


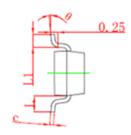


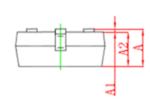




■SOT-23 Package Outline Dimensions

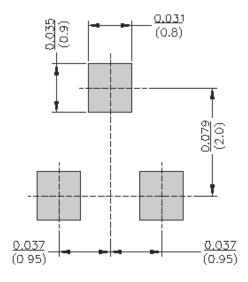






Symbol Symbol	Dimensions In	n Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
A	0. 900	1. 150	0. 035	0.045		
A1	A1 0.000 0.10		0.000	0.004		
A2	0. 900	1. 050	0. 035	0. 041		
b	0.300	0. 500	0.012	0.020		
с	0. 100	0. 200	0.004	0.008		
D	2, 800	3, 000	0.110	0.118		
Е	1. 200	1. 400	0.047	0. 055		
E1	2. 250	2. 550	0.089	0.100		
e	e 0.950TYP			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-23 Soldering Footprint







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