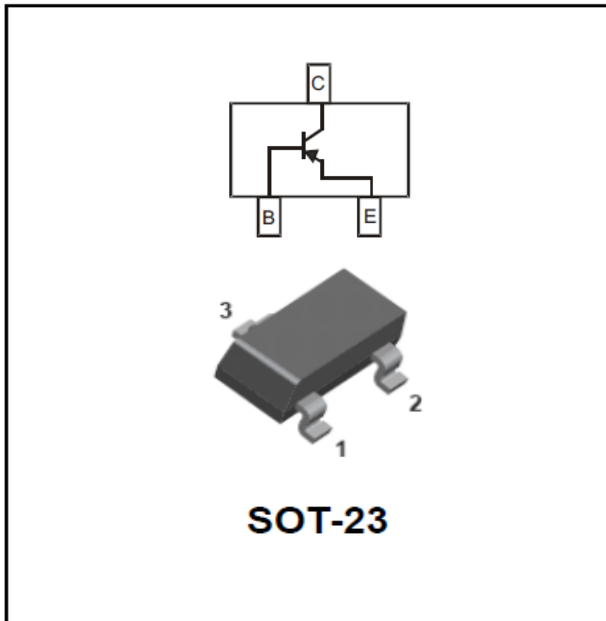


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: 2T

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V		-40
Collector-Emitter Voltage	VCEO	V		-40
Emitter-Base Voltage	VEBO	V		-5
Collector Current -Continuous	IC	A		-0.6
Total Device Dissipation	PC	W		0.3
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	IC=-100μA, IE=0	-40	
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	IC=-1mA, IB=0	-40	
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	IE=-100μA, IC=0	-5	
Collector cut-off current	ICBO	uA	VCB=-35V, IB=0		-0.1
Base cut-off current	ICEO	uA	VCE=-35V, IE=0		-0.1
Collector cut-off current	IEBO	uA	VCE=-4V, V IC=0V		-0.1
DC current gain	hFE	V	VCE=-2V, IC=-150mA	100	300
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=-150mA, IB=-15mA		-0.4
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	IC=-150mA, IB=-15mA		-0.95



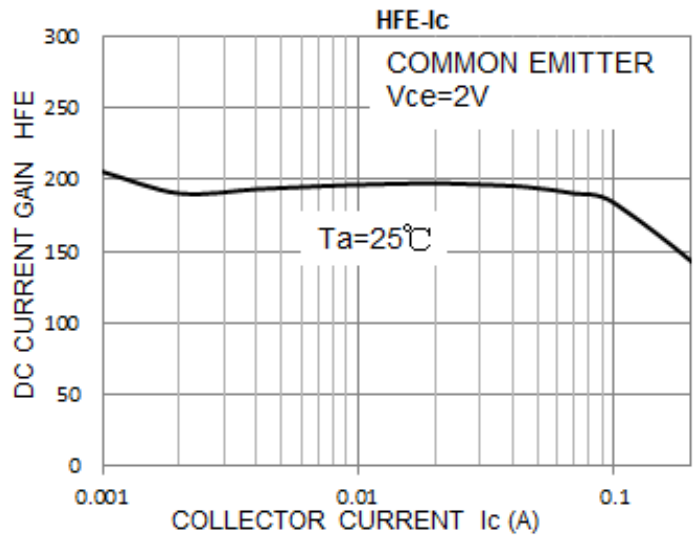
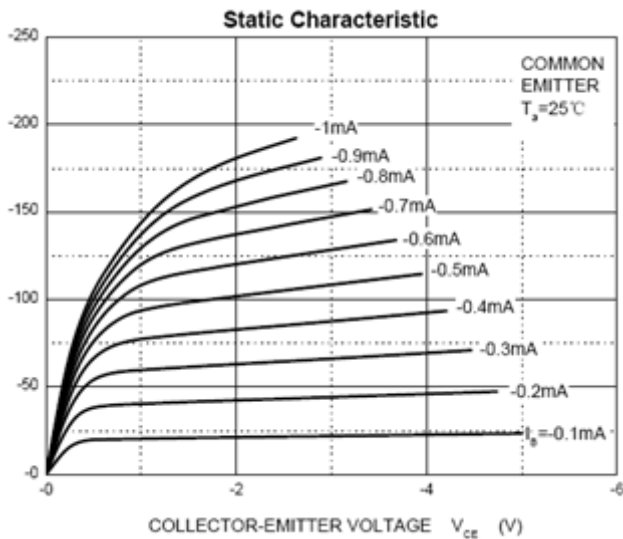
■ Electrical Characteristics (Ta=25°C unless otherwise noted)

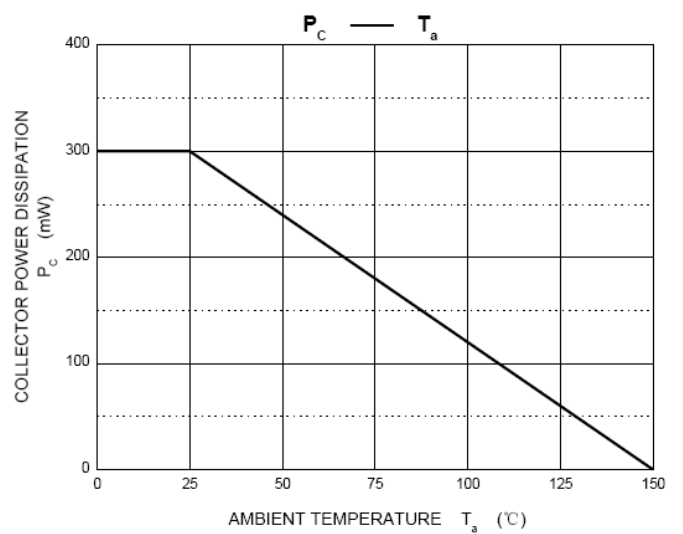
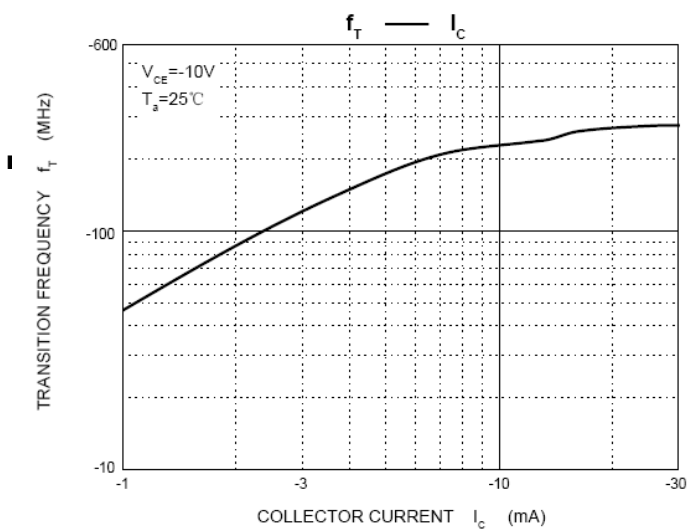
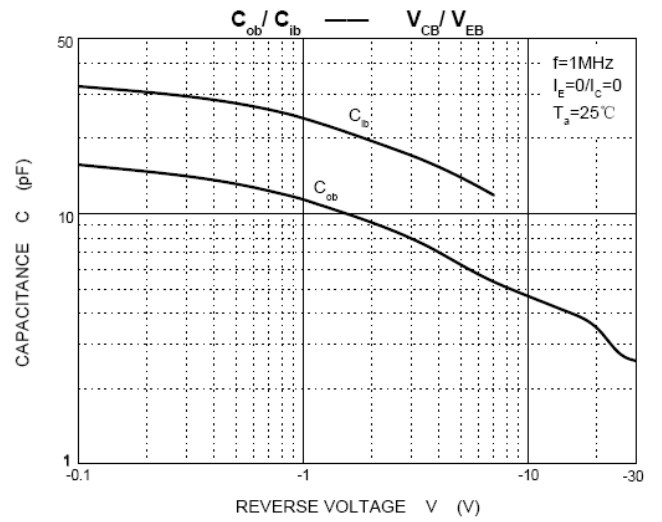
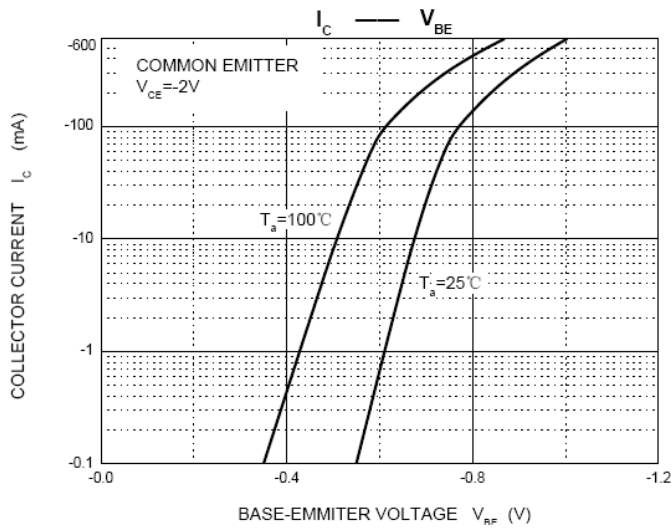
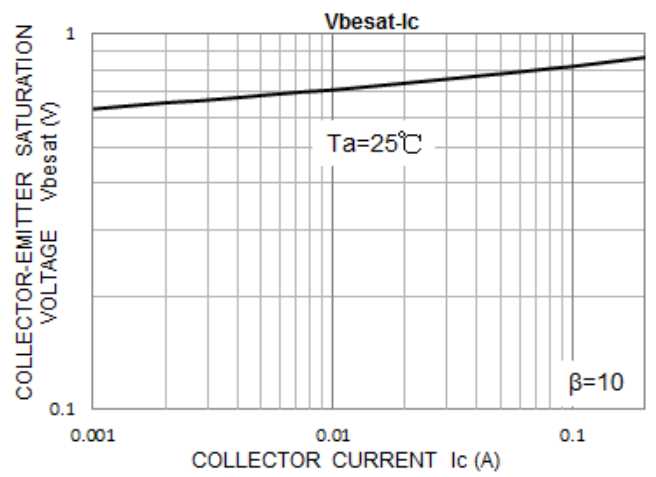
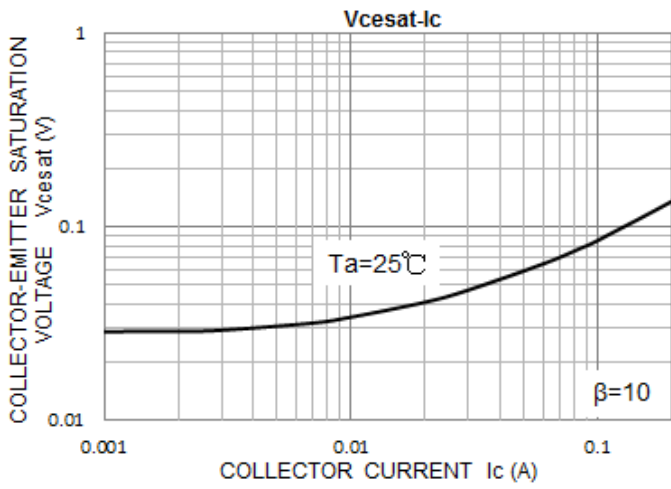
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	Ft	MHz	VCE=-10V, IC=-20mA, f=100MHz	200	
Delay time	td	ns	VCC=-3V, VEB=-2V 150mA, IB1=-15mA		15
Rise time	tr	ns			IC=-
Storage time	ts	ns	VCC=-3V, IC=-150mA, IB1=- IB2=-15mA		225
Fall time	tf	ns			30

■ Ordering Information (Example)

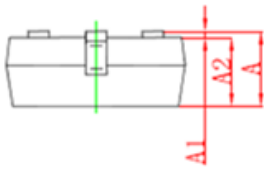
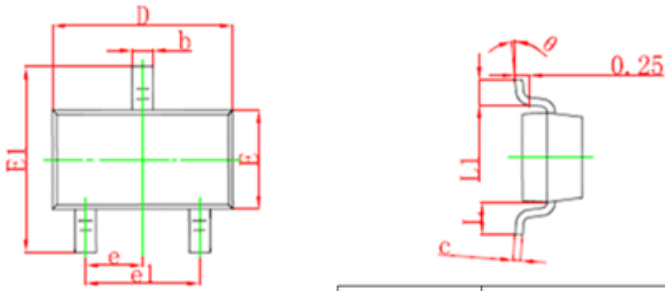
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBT4403	F2	Approximate 0.008	3000	30000	120000	7" reel

■ Characteristics (Typical)



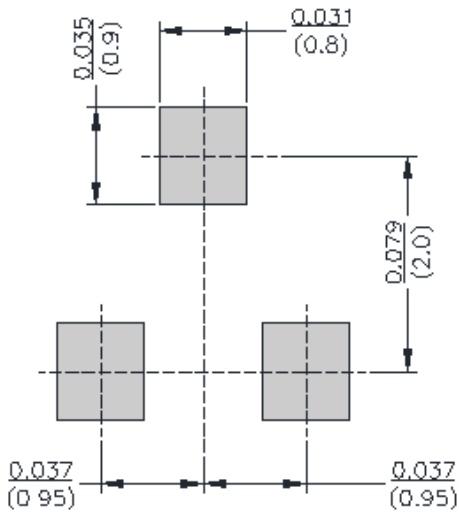


■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	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
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°		8°	

■SOT-23Suggested Pad Layout





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