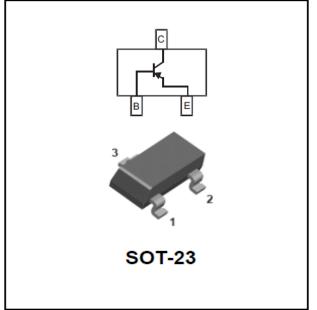
# **PNP General Purpose Amplifier**



#### Features

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

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

Item	Symbol	Unit	Value
Collector-Base Voltage	V <sub>CBO</sub>	V	-40
Collector-Emitter Voltage	V <sub>CEO</sub>	V	-40
Emitter-Base Voltage	V <sub>EBO</sub>	V	-5
Collector Current	lc	А	-0.6
Collector Power Dissipation	Pc	mW	300
Thermal Resistance From Junction To Ambient	$R_{ ext{ heta}JA}$	°C/W	417
Operation Junction Temperature	Tj	°C	150
Storage Temperature	T <sub>stg</sub>	°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
MMBT4403	F2	Approximate 0.008	3000	30000	120000	7" reel

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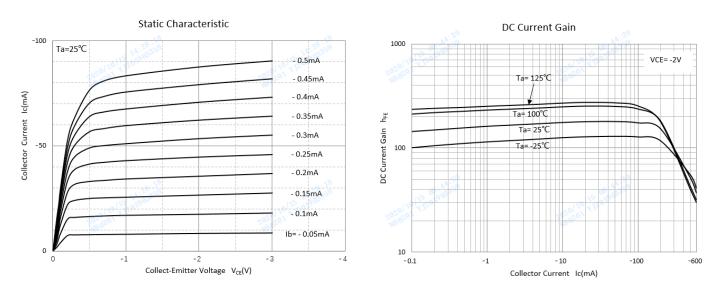
#### ■ Electrical Characteristics (Ta=25°C unless otherwise noted)

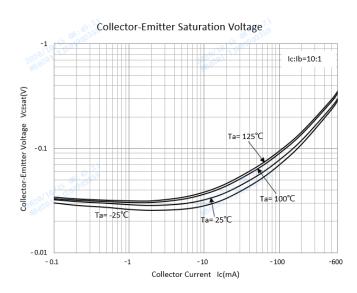
Item	Symbol	Unit	Conditions	Min	Мах
Collector-base breakdown voltage	V <sub>CBO</sub>	V	IC=-100µA,IE=0	-40	
Collector-emitter breakdown voltage	V <sub>CEO</sub>	V	IC =-1mA,IB=0	-40	
Emitter-base breakdown voltage	V <sub>EBO</sub>	V	IE=-100μΑ,IC=0	-5	
Collector-Base cut-off current	I <sub>СВО</sub>	uA	VCB=-35V,IE=0		-0.1
Collector-emitter cut-off current	I <sub>CEO</sub>	uA	VCE=-35V, IB =0		-0.1
Emitter-base cut-off current	I <sub>EBO</sub>	uA	VEB=-4V, IC=0V		-0.1
DC current gain	h <sub>FE</sub>	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

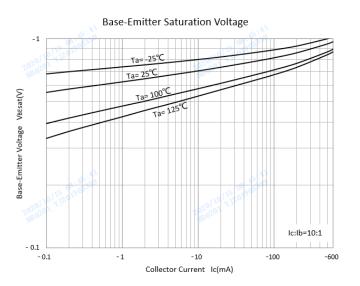
#### ■ Electrical Characteristics (Ta=25°C unless otherwise noted)

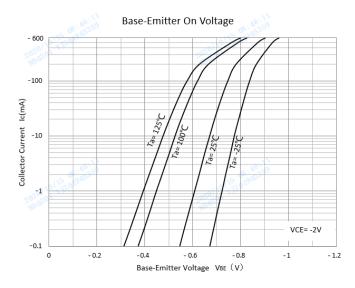
ltem	Symbol	Unit	Conditions	Min	Мах
Transition frequency	Ft	MHz	VCE=-10V,IC=-20mA,f=100MHz	200	
Delay time	td	ns	VCC=-30V,VEB=-2V		15
Rise time	tr	ns	IC=-150mA, IB1=-15mA		20
Storage time	ts	ns	VCC=-30V,IC=-150mA,		225
Fall time	tf	ns	IB1= IB2=-15mA		60

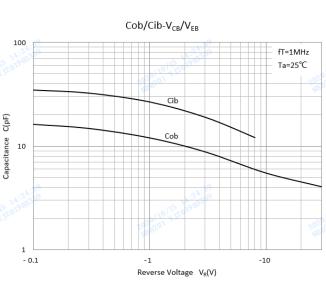
## Characteristics (Typical)

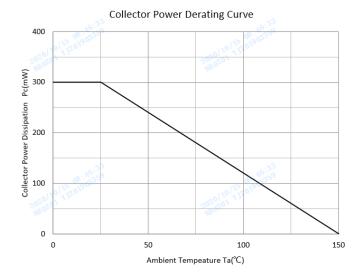






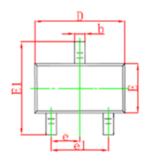


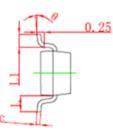


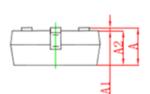


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## ■SOT-23 Package Outline Dimensions

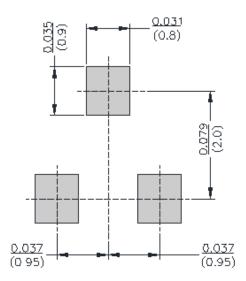






Symbol .	Dimensions In	n Millimeters	Dimensions In Inches		
3ym001	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1. 400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2.000	0.071	0.079	
L	0. 550REF		0. 022REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8*	

### ■SOT-23 Soldering Footprint





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