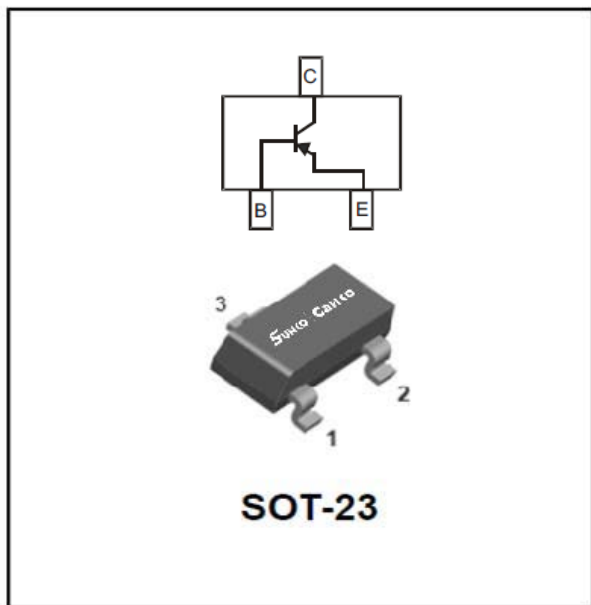


PNP General Purpose Amplifier



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_{CBO}	V	-40
Collector-Emitter Voltage	V_{CEO}	V	-40
Emitter-Base Voltage	V_{EBO}	V	-5
Collector Current	I_C	A	-0.6
Collector Power Dissipation	P_C	mW	300
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	°C/W	417
Operation Junction Temperature	T_j	°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
MMBT4403	F2	Approximate 0.008	3000	30000	120000	7" reel

MMBT4403

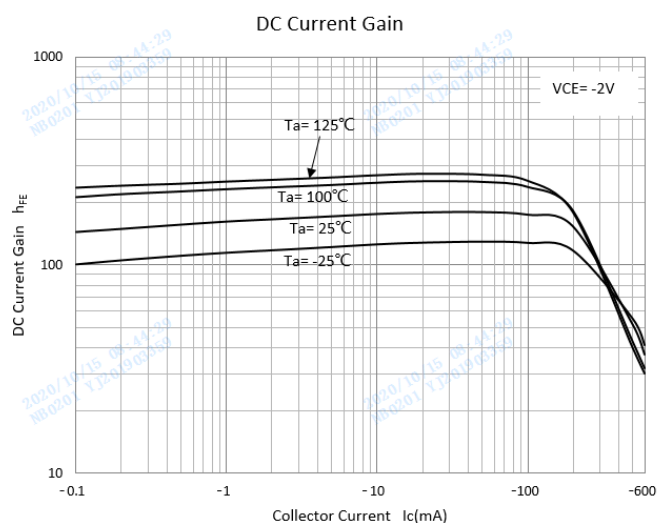
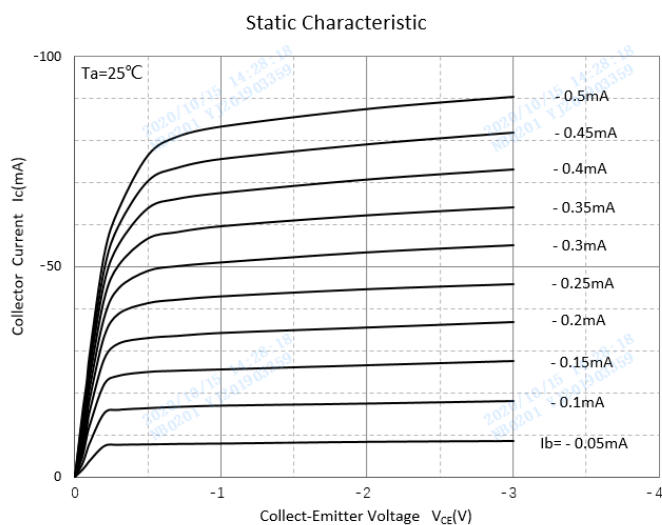
■ Electrical Characteristics (Ta=25°C unless otherwise noted)

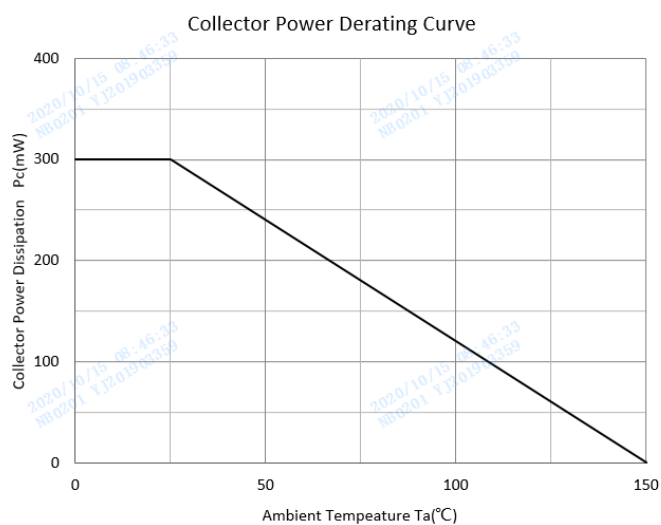
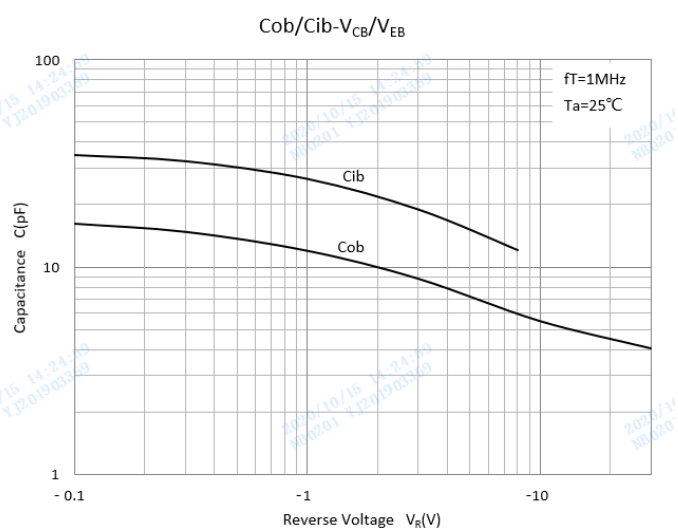
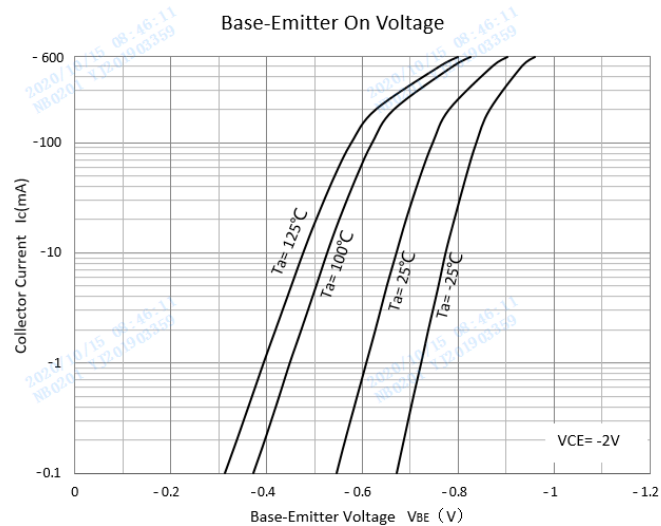
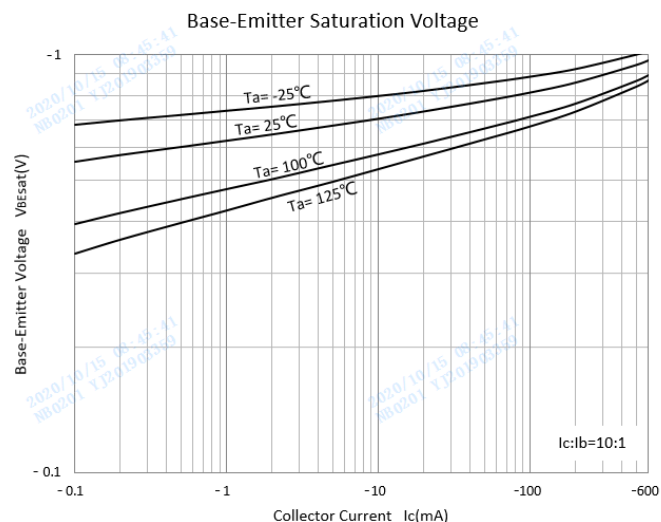
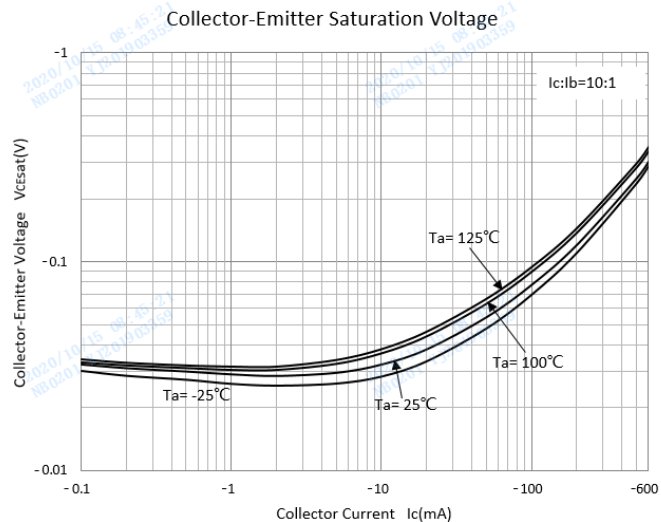
Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C = -100\mu A, I_E = 0$	-40	
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C = -1mA, I_B = 0$	-40	
Emitter-base breakdown voltage	V_{EBO}	V	$I_E = -100\mu A, I_C = 0$	-5	
Collector-Base cut-off current	I_{CBO}	μA	$V_{CB} = -35V, I_E = 0$		-0.1
Collector-emitter cut-off current	I_{CEO}	μA	$V_{CE} = -35V, I_B = 0$		-0.1
Emitter-base cut-off current	I_{EBO}	μA	$V_{EB} = -4V, I_C = 0V$		-0.1
DC current gain	h_{FE}	V	$V_{CE} = -2V, I_C = -150mA$	100	300
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C = -150mA, I_B = -15mA$		-0.4
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C = -150mA, I_B = -15mA$		-0.95

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

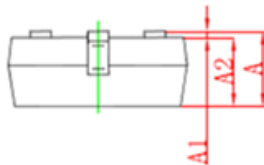
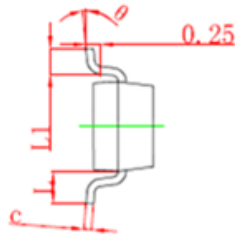
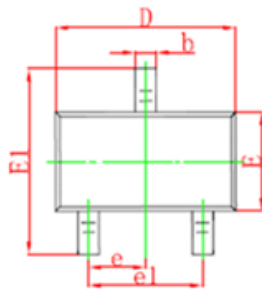
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	F_t	MHz	$V_{CE} = -10V, I_C = -20mA, f = 100MHz$	200	
Delay time	t_d	ns	$V_{CC} = -30V, V_{EB} = -2V$ $I_C = -150mA, I_{B1} = -15mA$		15
Rise time	t_r	ns			20
Storage time	t_s	ns	$V_{CC} = -30V, I_C = -150mA,$ $I_{B1} = I_{B2} = -15mA$		225
Fall time	t_f	ns			60

■ Characteristics (Typical)



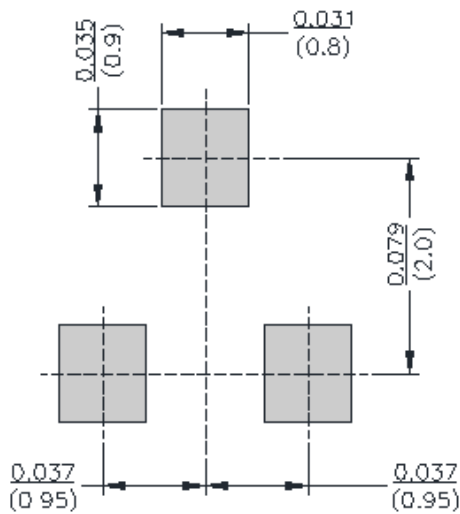


■SOT-23 Package Outline Dimensions



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°	0°	8°

■SOT-23 Soldering Footprint



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