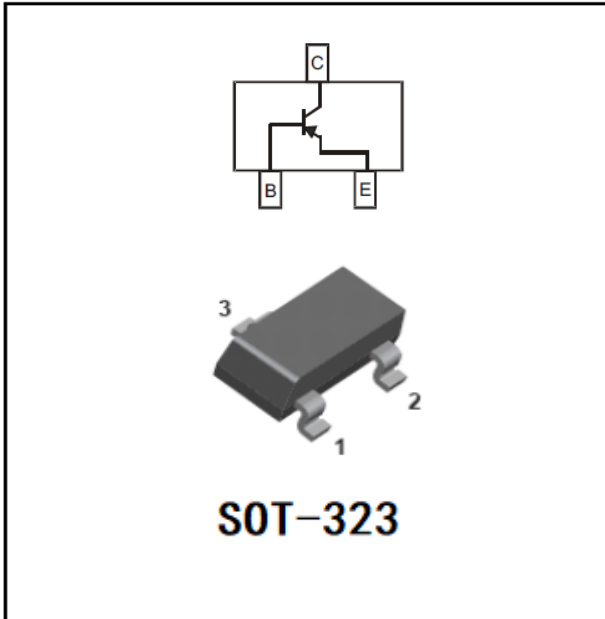


## PNP General Purpose Amplifier



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking: K4M

### ■ Maximum Ratings (Ta=25°C)

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage*	$V_{CEO}$	V	$I_C = -1.0\text{mA}, I_B = 0$	-150
Collector-Base Voltage	$V_{CBO}$	V	$I_C = -100\mu\text{A}, I_E = 0$	-160
Emitter-Base Voltage	$V_{EBO}$	V	$I_E = -10\mu\text{A}, I_C = 0$	-5.0
Collector Current	$I_C$	mA		-600
Collector Power Dissipation	$P_C$	mW		200
Operation Junction Temperature	$T_j$	°C		150
Storage Temperature	$T_{stg}$	°C		-55 to +150



# MMST5401

## ■Electrical Characteristics (T<sub>a</sub>=25°C)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V <sub>CEO</sub>	V	I <sub>C</sub> =-1.0mA, I <sub>B</sub> =0	-150	
Collector-Base Voltage	V <sub>CBO</sub>	V	I <sub>C</sub> =-100μA, I <sub>E</sub> =0	-160	
Emitter-Base Voltage	V <sub>EBO</sub>	V	I <sub>E</sub> =-10μA, I <sub>C</sub> =0	-5	
Collector-Base Cut-off Current	I <sub>CBO</sub>	nA	V <sub>CB</sub> =-120Vdc		-50
Emitter-Base Cut-off Current	I <sub>EBO</sub>	nA	V <sub>EB</sub> =-3Vdc		-50
DC Current Gain	h <sub>FE</sub>		I <sub>C</sub> =-1.0mA V <sub>CE</sub> =-5.0Vdc	50	
			I <sub>C</sub> =-10mA V <sub>CE</sub> =-5.0Vdc	60	300
			I <sub>C</sub> =-50mA V <sub>CE</sub> =-5.0Vdc	50	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	V	I <sub>C</sub> =-50mA I <sub>B</sub> =-5.0mA		-0.5
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	V	I <sub>C</sub> =-50mA I <sub>B</sub> =-5.0mA		-1.0

## ■Small-signal Characteristics (T<sub>a</sub>=25°C)

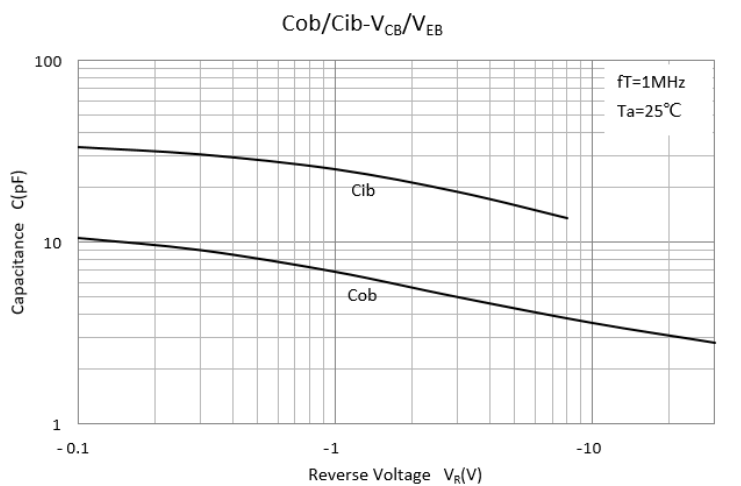
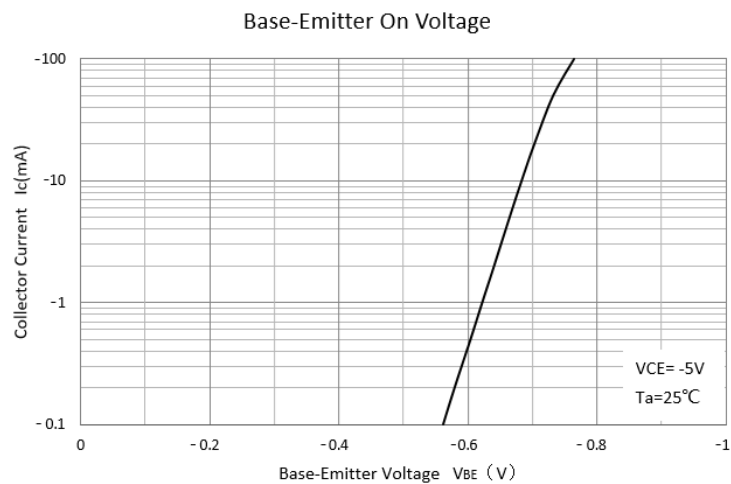
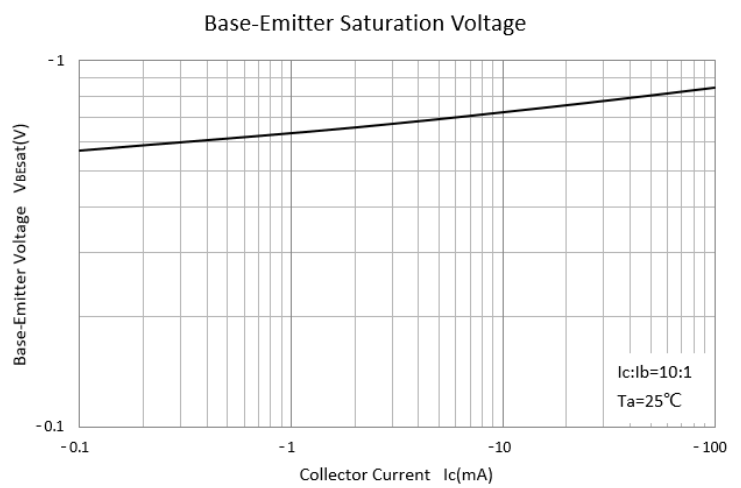
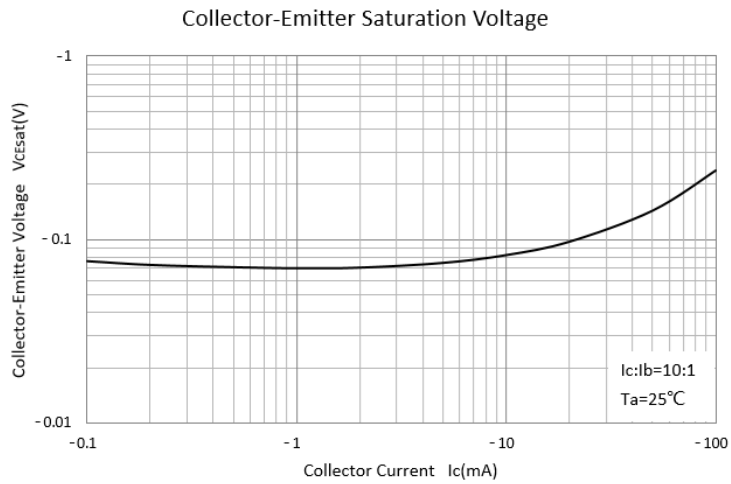
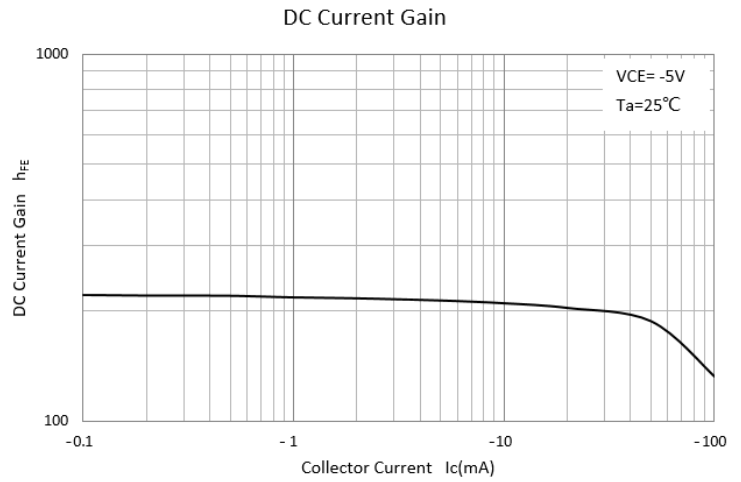
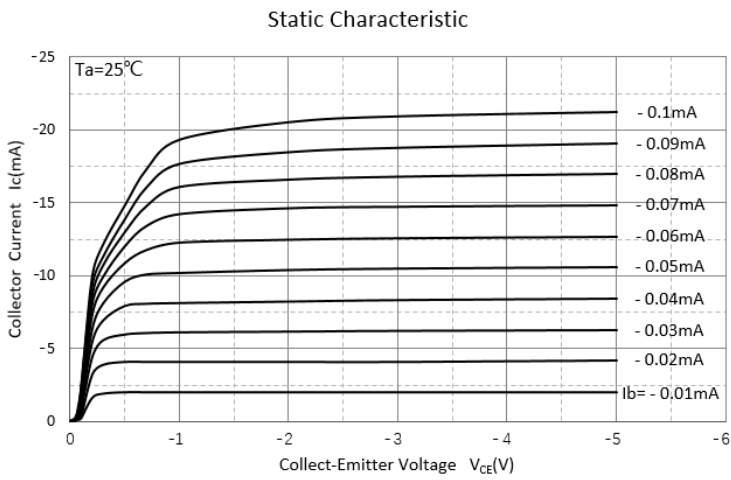
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	f <sub>T</sub>	MHz	I <sub>C</sub> =-10mA, V <sub>CE</sub> =-10Vdc, f=100MHz	100	300

## ■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMST5401	F2	Approximate 0.005	3000	30000	120000	7" reel



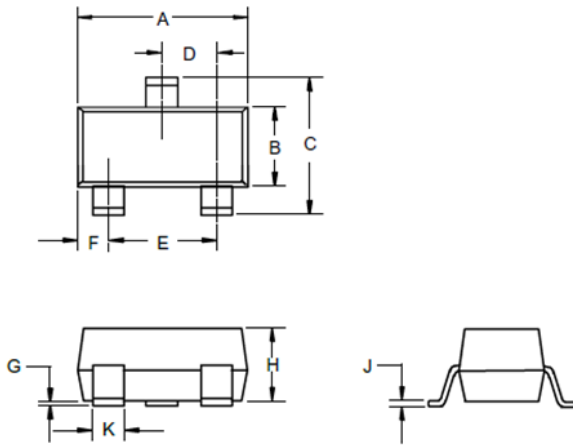
## ■ Characteristics(Typical)





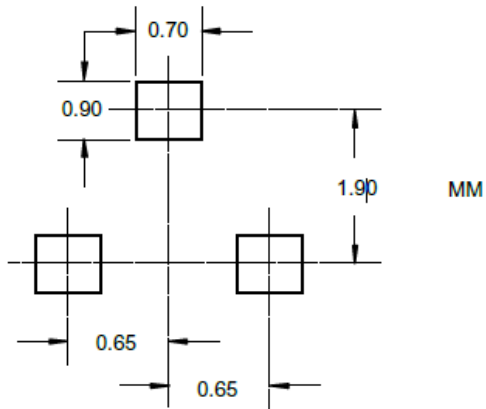
# MMST5401

## ■SOT-323 Package Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

## ■SOT-323 Soldering Footprint





# MMST5401

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