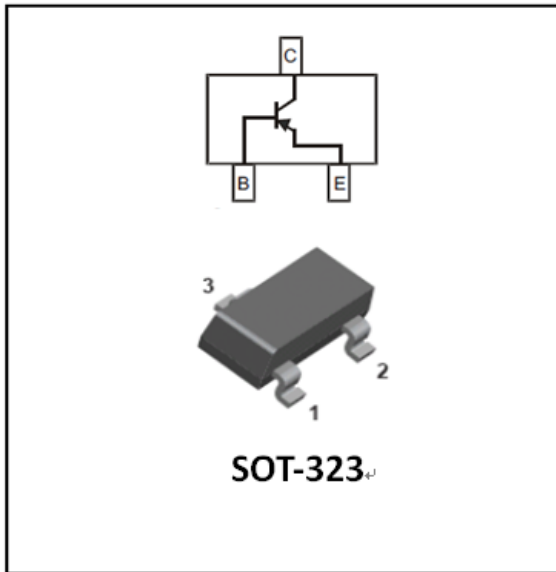


## PNP General Purpose Amplifier



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: K3T

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	$V_{CB0}$	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	$P_C$	W		0.2
Operation Junction Temperature	$T_j$	°C		150
Storage Temperature	$T_{stg}$	°C		-55 to +150

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

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	$V_{CB0}$	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	$I_{CB0}$	$\mu A$	$V_{CB} = -35V, I_E = 0$		-0.1
Collector-emitter cut-off current	$I_{CEO}$	$\mu A$	$V_{CE} = -35V, I_B = 0$		-0.1
Emitter-base cut-off current	$I_{EBO}$	$\mu A$	$V_{EB} = -4V, I_C = 0V$		-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)

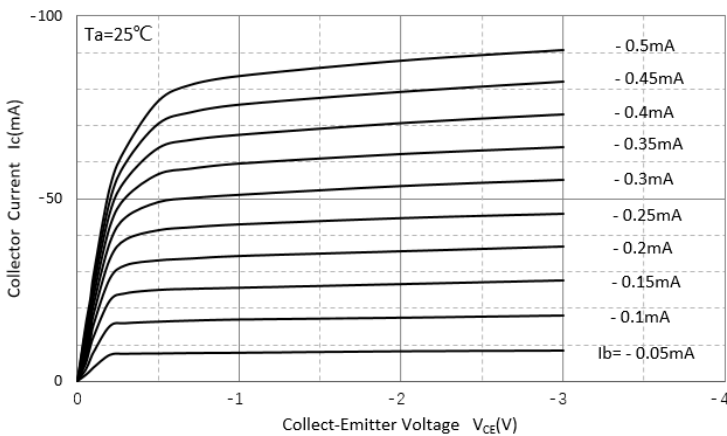
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	Ft	MHz	VCE=-10V, IC=-20mA, f=100MHz	200	
Delay time	td	ns	VCC=-30V, IC=-150uA VBE (off) =-2V, IB1=-15mA		15
Rise time	tr	ns			20
Storage time	ts	ns	VCC=-30V, IC=-150mA, IB1= IB2=-15mA		225
Fall time	tf	ns			30

## ■ Ordering Information (Example)

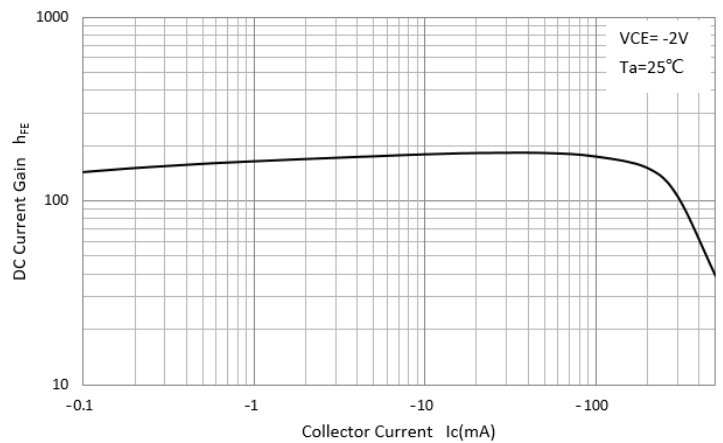
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMST4403	F2	Approximate 0.005	3000	30000	120000	7" reel

## ■ Characteristics (Typical)

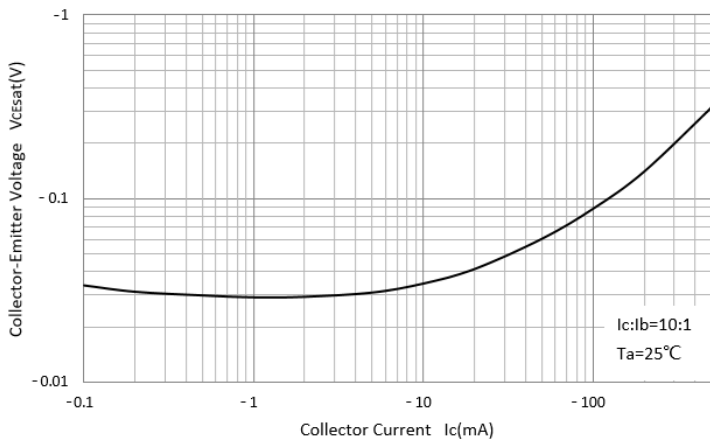
Static Characteristic



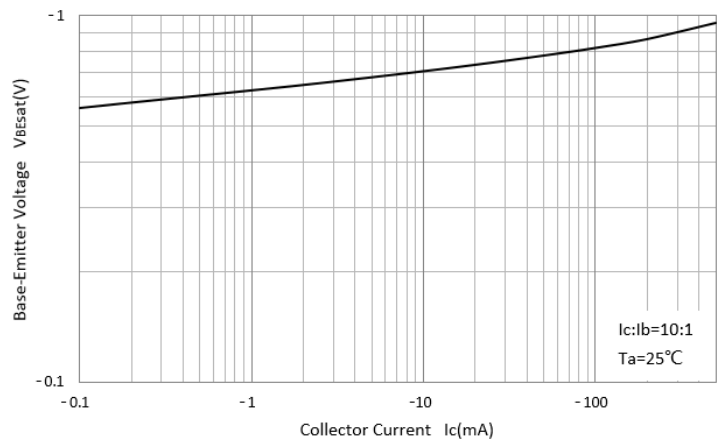
DC Current Gain



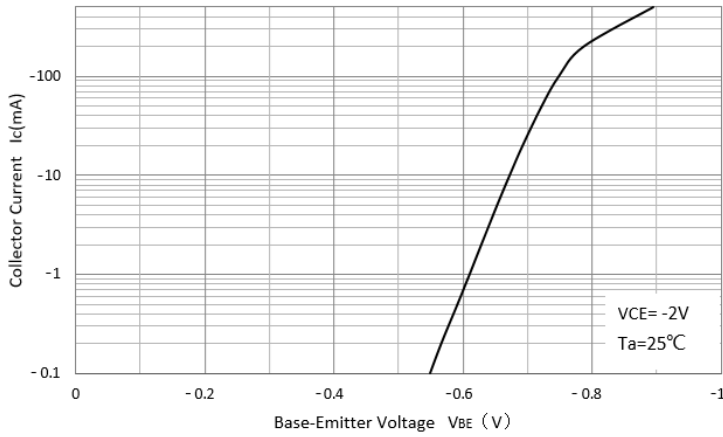
Collector-Emitter Saturation Voltage



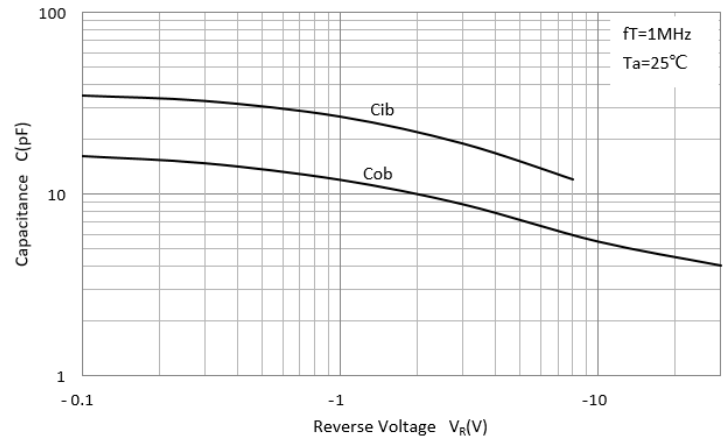
Base-Emitter Saturation Voltage



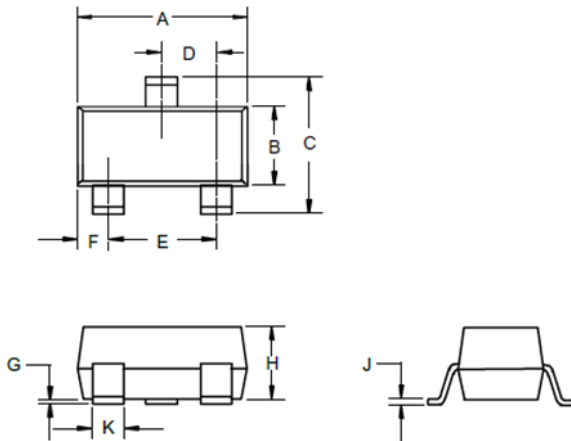
Base-Emitter On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$

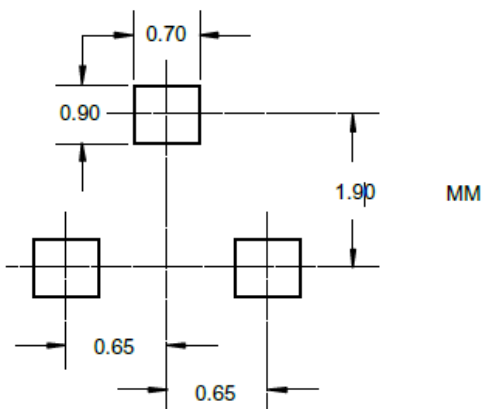


## ■SOT-323 Package Outline Dimensions



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





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