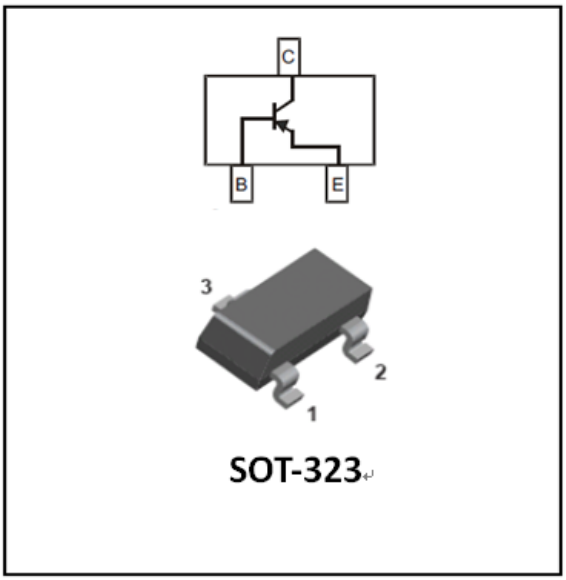
PNP General Purpose Amplifier



Features

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

■ Maximum Ratings (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Conditions	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	W		0.2
Operation Junction Temperature	T_j	℃		150
Storage Temperature	T_{stg}	℃		-55 to +150

■ Electrical Characteristics (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	IC=-100μA,IE=0	-40	
Collector-emitter breakdown voltage	V_{CEO}	V	IC =-1mA,IB=0	-40	
Emitter-base breakdown voltage	V_{EBO}	V	IE=-100μA,IC=0	-5	
Collector-Base cut-off current	I_{CBO}	uA	VCB=-35V,IE=0		-0.1
Collector-emitter cut-off current	I_{CEO}	uA	VCE=-35V, IB =0		-0.1
Emitter-base cut-off current	I_{EBO}	uA	VEB=-4V, IC=0V		-0.1
DC current gain	h_{FE}	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℃ unless otherwise noted)

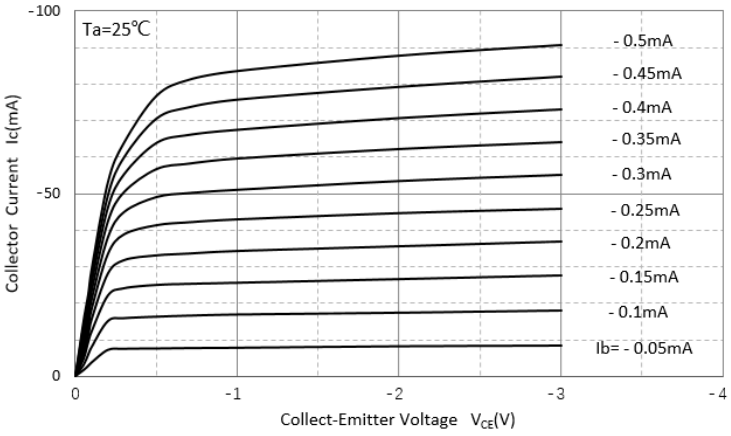
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	Ft	MHz	VCE=-10V,IC=-20mA,f=100MHz	200	
Delay time	td	ns	VCC=-30V,IC=-150uA VBE（off）=-2V，IB1=-15mA		15
Rise time	tr	ns			20
Storage time	ts	ns	VCC=-30V,IC=-150mA, IB1= IB2=-15mA		225
Fall time	tf	ns			60

■ Ordering Information (Example)

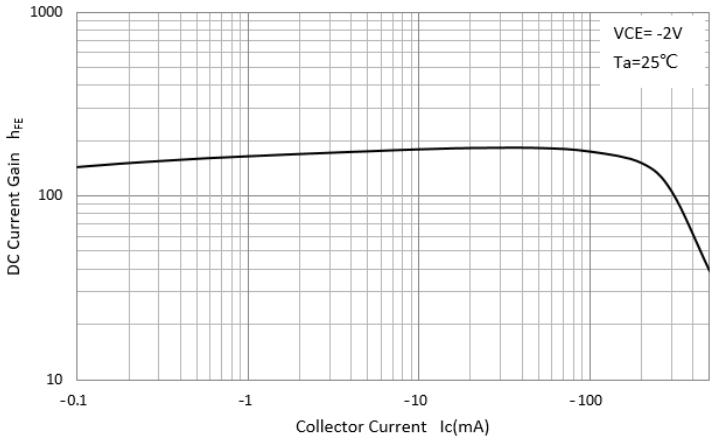
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMST4403	F2	Approximate 0.005	3000	30000	120000	7” reel

■ Characteristics (Typical)

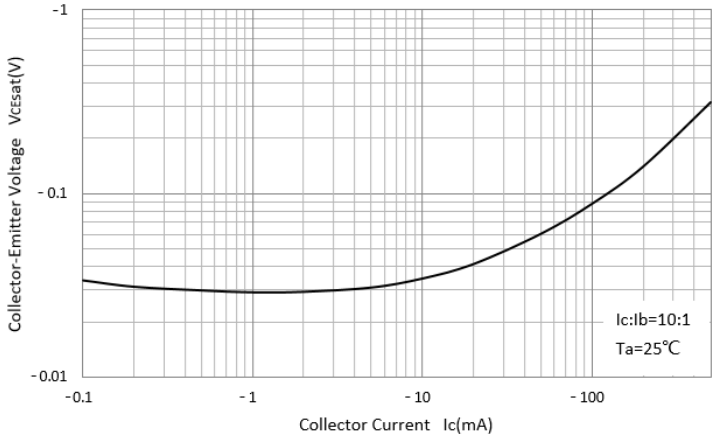
Static Characteristic



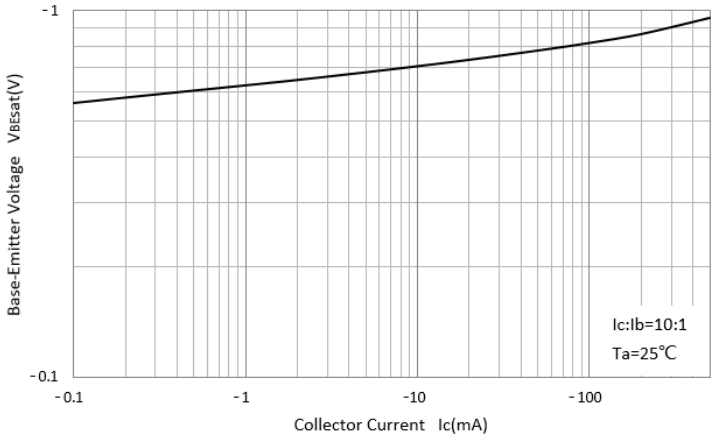
DC Current Gain

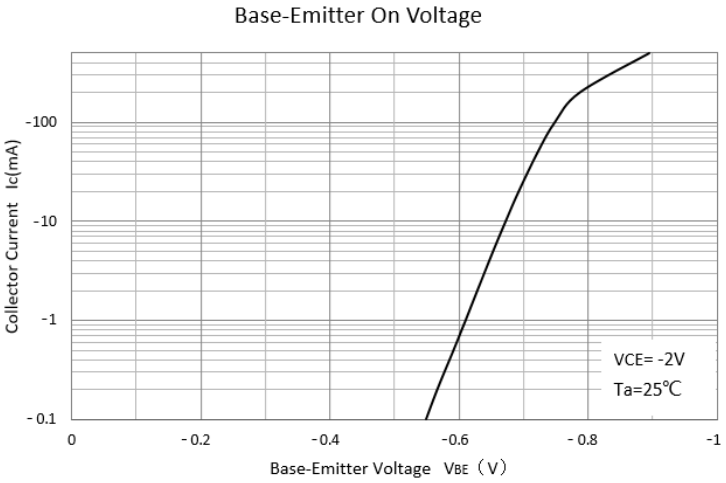


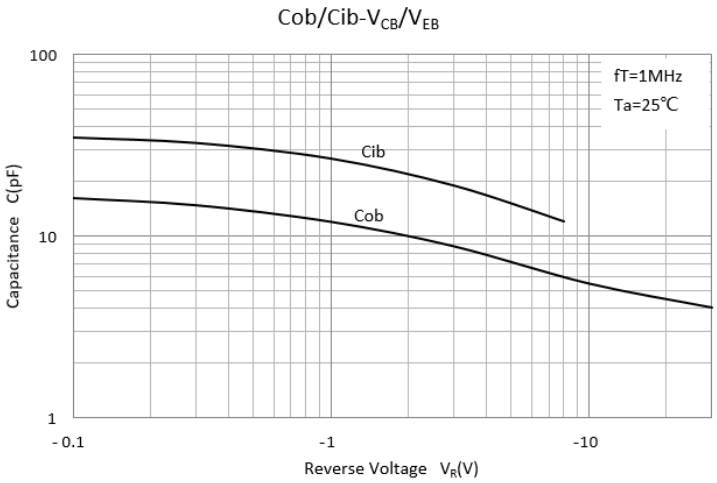
Collector-Emitter Saturation Voltage



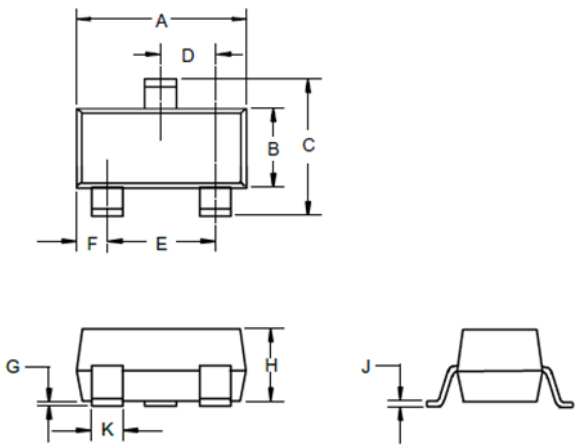
Base-Emitter Saturation Voltage





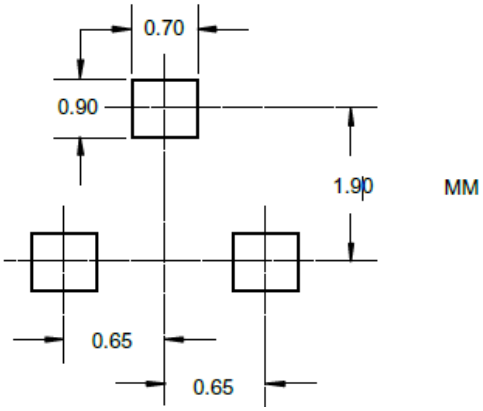


■SOT-323 Package Outline Dimensions



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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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