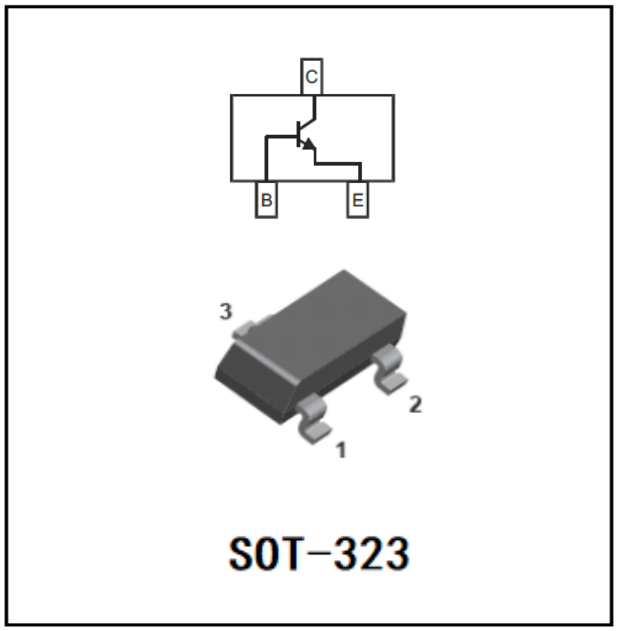
NPN General Purpose Amplifier



Features

- ●Epoxy meets UL-94 V-0 flammability rating
- ●Halogen free available upon request by adding suffix ”HF”
- ●Moisure Sensitivity Level 1
- ●Marking:K4N

■Maximum Rantings (Ta=25℃)

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage*	V_{CEO}	V	I_C=1.0mAdc, I_B=0	160
Collector-Base Voltage	V_{CBO}	V	I_C=100uAdc, I_E=0	180
Emitter-Base Voltage	V_{EBO}	V	I_E=10uAdc, I_C=0	6.0
Collector Current	I_C	mA		600
Collector Power Dissipation	P_C	mW		200
Operation Junction Temperature	T_j	℃		150
Storage Temperature	T_{stg}	℃		-55 to +150

■Electrical Characteristics（T_a=25℃）

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CEO}	V	I_C=1.0mAdc, I_B=0	160	
Collector-Base Voltage	V_{CBO}	V	I_C=100uAdc, I_E=0	180	
Emitter-Base Voltage	V_{EBO}	V	I_E=10uAdc, I_C=0	6	
Collector-Base Cut-off Current	I_{CBO}	nA	V_{CB}=120Vdc		50
Emitter-Base Cut-off Current	I_{EB0}	nA	V_{EB}=4Vdc		50
DC Current Gain	h_{FE}		I_C=1.0mA V_{CE}=5.0Vdc	80	
			I_C=10mA V_{CE}=5.0Vdc	100	300
			I_C=50mA V_{CE}=5.0Vdc	30	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	I_C=50mA I_B =5.0mA		0.2
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	I_C=50mA I_B =5.0mA		1.0

■Small-signal Characteristics（Ta=25℃）

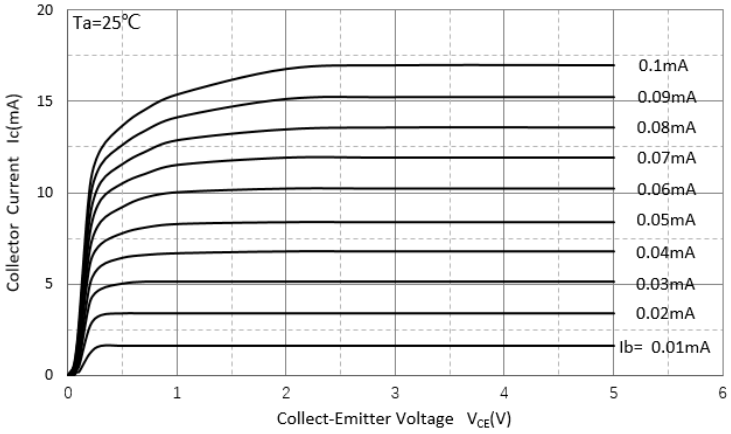
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	f_T	MHz	I_C=10mAdc, V_{CE}=5.0Vdc,f=30MHz	100	300

■Ordering Information (Example)

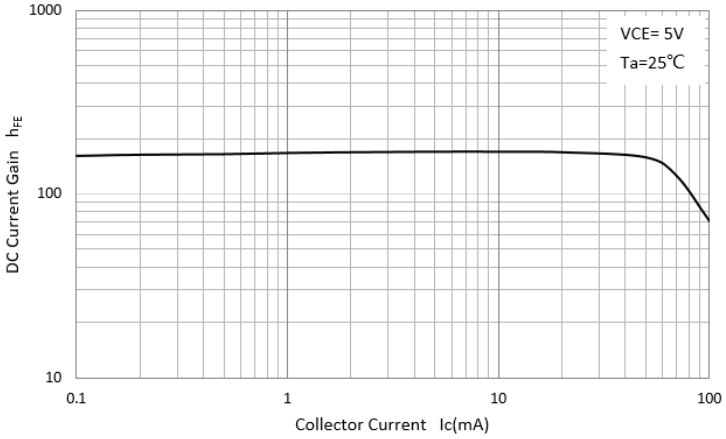
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMST5551	F2	Approximate 0.005	3000	30000	120000	7” reel

■Characteristics(Typical)

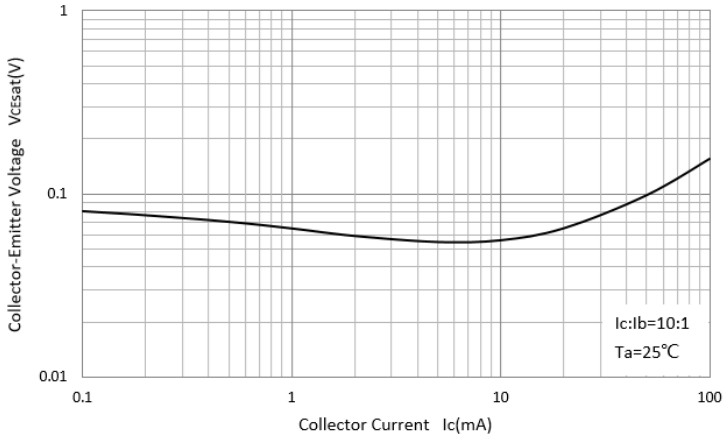
Static Characteristic



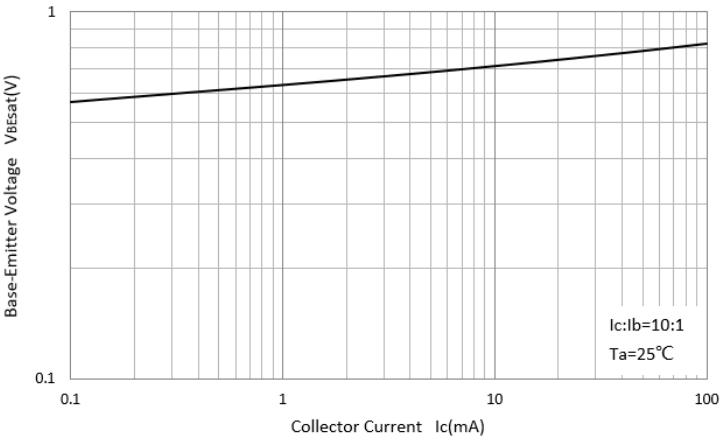
DC Current Gain



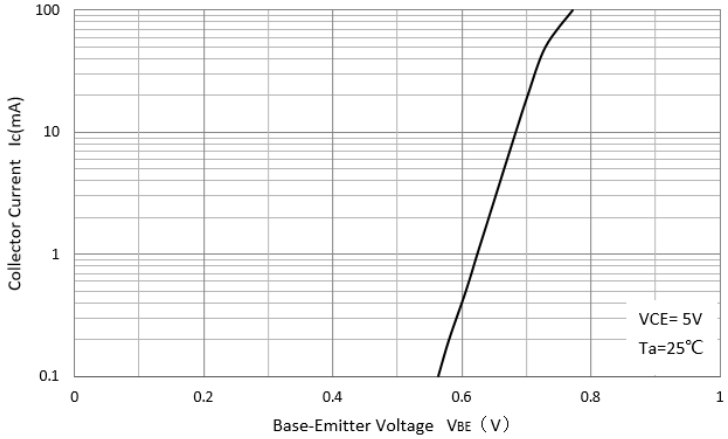
Collector-Emitter Saturation Voltage



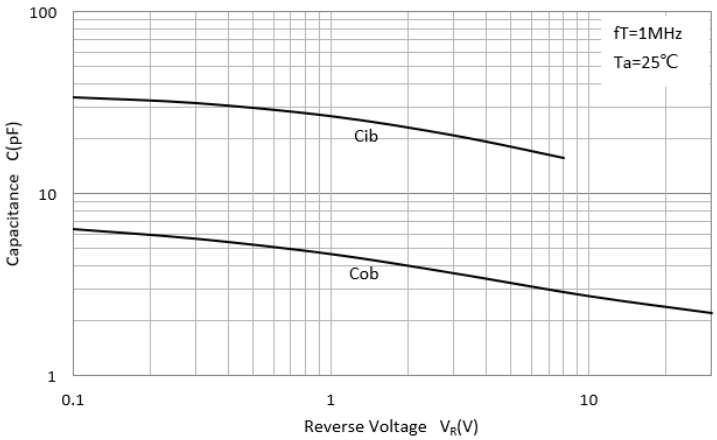
Base-Emitter Saturation Voltage



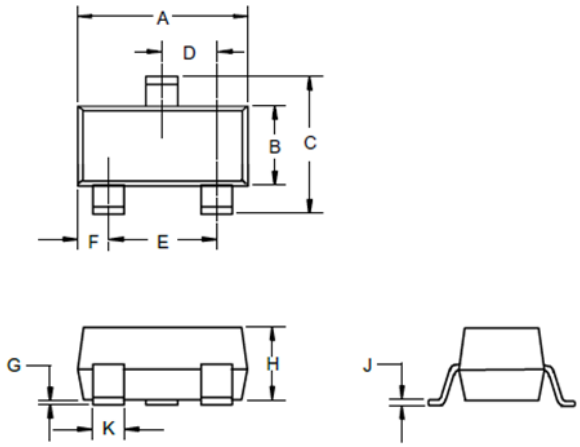
Base-Emitter On Voltage



Cob/Cib-V_{CB}/V_{EB}

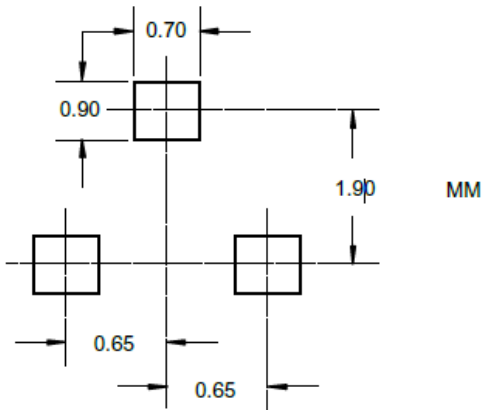


■SOT-323 Package Outline Dimensions



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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