

RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

FEATURES

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

SOT-323

MARKING

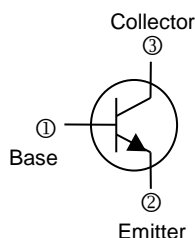
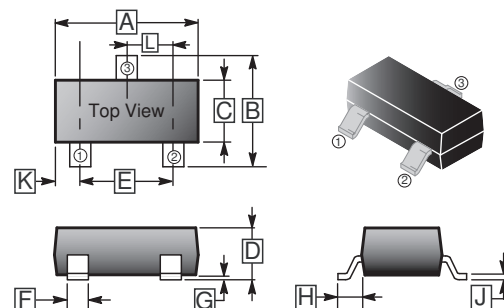
K4N

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
MMST5551W-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.10	REF.
B	1.80	2.55	H	0.525	REF.
C	1.10	1.40	J	0.05	0.25
D	0.80	1.15	K	0.35	REF.
E	1.20	2.00	L	0.65	TYP.
F	0.15	0.50			

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

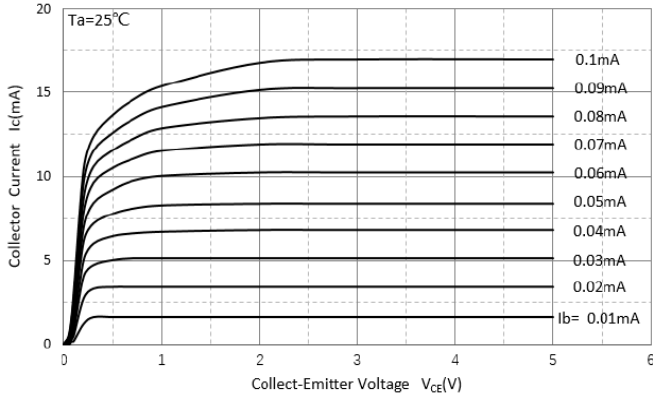
Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CB0}	180	V
Collector-Emitter Voltage	V _{CE0}	160	
Emitter-Base Voltage	V _{EBO}	6	
Collector Current	I _C	600	mA
Collector Power Dissipation	P _C	200	mW
Junction, Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

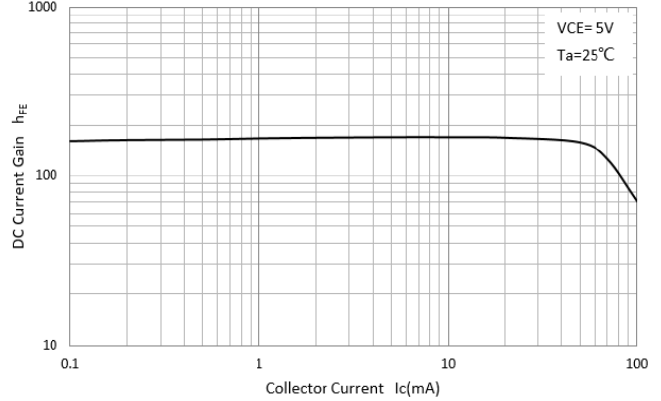
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	180	-	-	V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	160	-	-		I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6	-	-		I _E =10μA, I _C =0
Collector Cut-off Current	I _{CBO}	-	-	50	nA	V _{CB} =120V
Collector Cut-off Current	I _{CEO}	-	-	50		V _{EB} =4V
DC Current Gain	h _{FE}	80	-	-		I _C =1mA, V _{CE} =5V
		100	-	300		I _C =10mA, V _{CE} =5V
		30	-	-		I _C =50mA, V _{CE} =5V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	0.2	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}	-	-	1	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	100	-	300	MHz	I _C =10mA, V _{CE} =5V, f=30MHz

TYPICAL CHARACTERISTICS

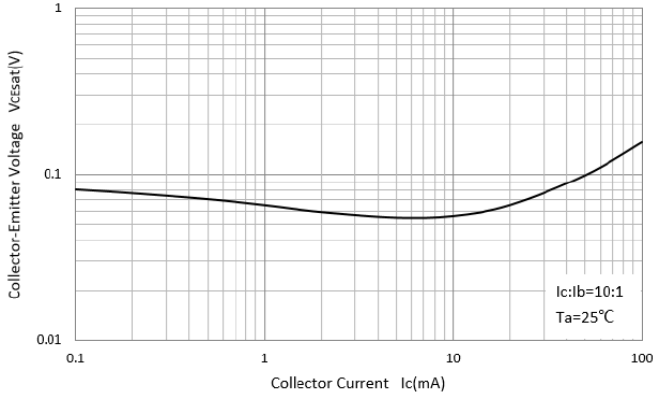
Static Characteristic



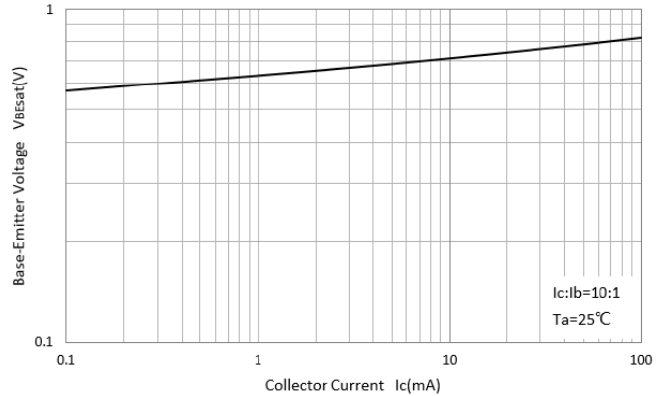
DC Current Gain



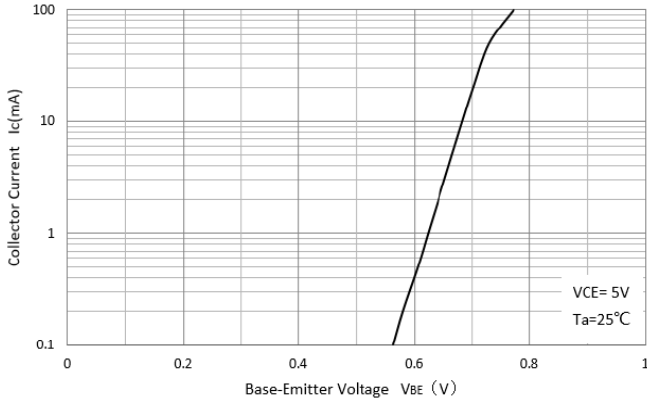
Collector-Emitter Saturation Voltage



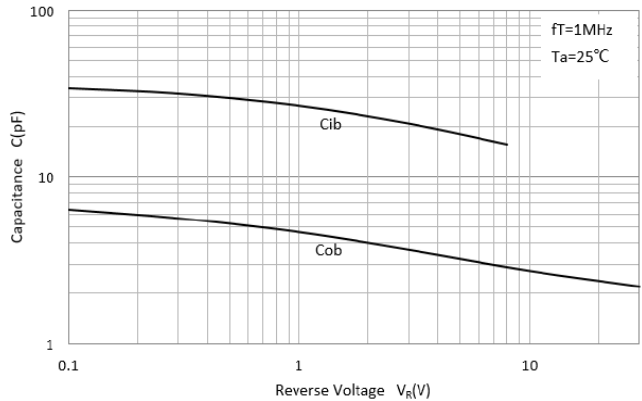
Base-Emitter Saturation Voltage



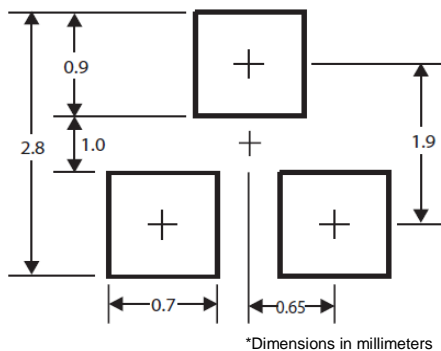
Base-Emitter On Voltage



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



Mounting Pad Layout



*Dimensions in millimeters