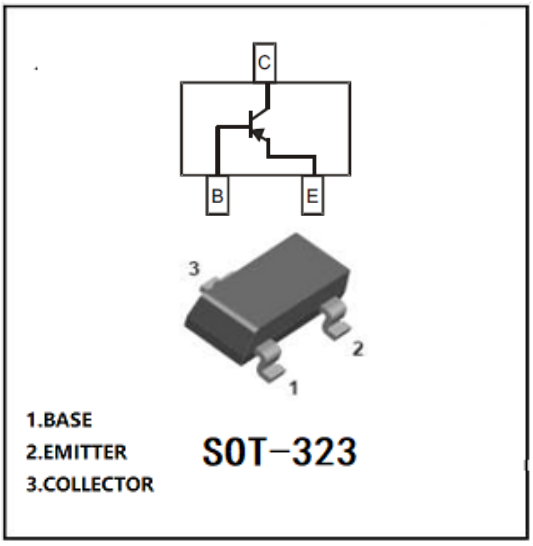
PNP Silicon High Voltage Transistor



Features

- ●Epoxy meets UL-94 V-0 flammability rating
- ●Halogen free available upon request by adding suffix "HF"
- ●Moisture Sensitivity Level 1
- ●Surface mount package ideally Suited for Automatic Insertion
- ●PNP

Mechanical Data

- ● **Package**: SOT-323
- ● **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- ● **Marking:** K3R

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V	IC=-100μA,IE=0	-300
Collector-Emitter Voltage	V_{CEO}	V	IC =-1mA,IB=0	-300
Emitter-Base Voltage	V_{EBO}	V	IE=-100μA,IC=0	-5
Collector Current	I_C	mA		-100
Collector Power Dissipation	P_C	mW		200
Operation Junction Temperature	T_j	℃		-55 to +150
Storage Temperature	T_{stg}	℃		-55 to +150

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	IC=-100μA,IE=0	-300	
Collector-emitter breakdown voltage	V_{CEO}	V	IC =-1mA,IB=0	-300	
Emitter-base breakdown voltage	V_{EBO}	V	IE=-100μA,IC=0	-5	
Collector-base cut-off current	I_{CBO}	nA	VCB=-200V,IE=0		-250
Emitter-base cut-off current	I_{EBO}	nA	VEB=-5V,IC=0		-100
DC current gain	h_{FE}		VCE=-10V,IC=-1mA	60	
	h_{FE}		VCE=-10V,IC=-10mA	100	200
	h_{FE}		VCE=-10V,IC=-30mA	60	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=-20mA,IB=-2mA		-0.4
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	IC=-20mA,IB=-2mA		-0.9

■Other Characteristics（T_a=25℃ Unless otherwise specified）

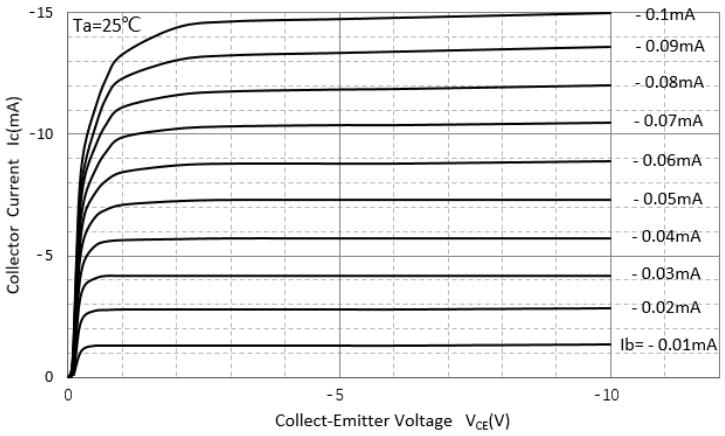
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	Ft	MHz	VCE=-20V,IC=-10mA,f=30MHz	50	

■Ordering Information (Example)

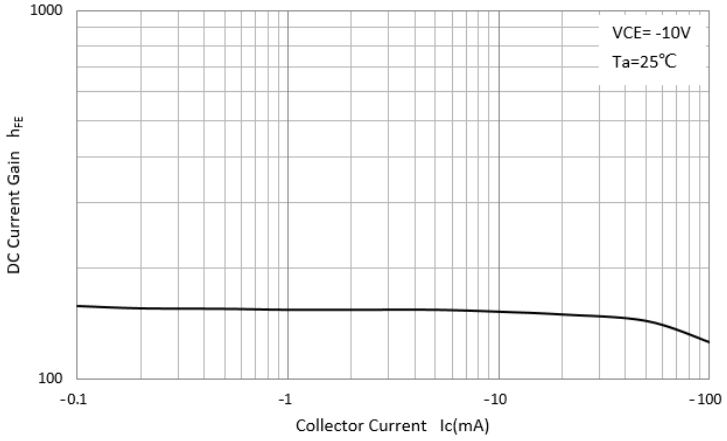
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMSTA92	F2	Approximate 0.005	3000	30000	120000	7” reel

■Characteristics(Typical)

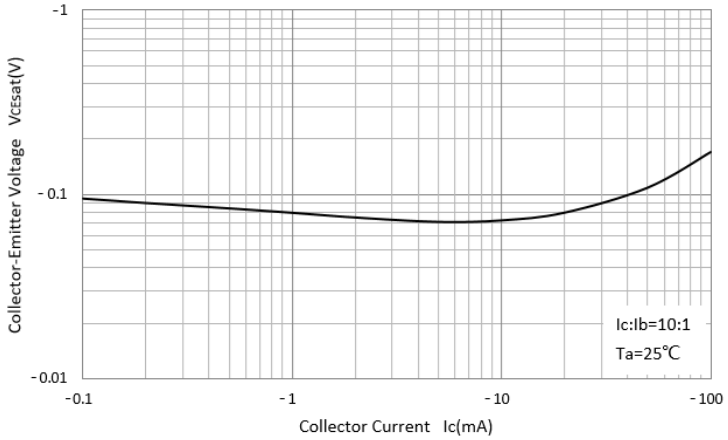
Static Characteristic



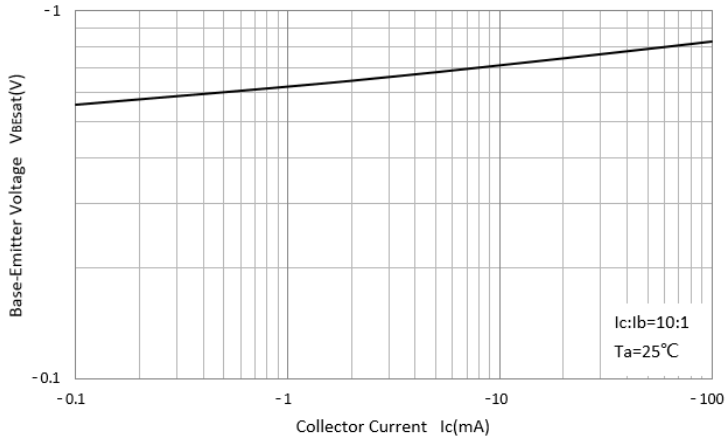
DC Current Gain



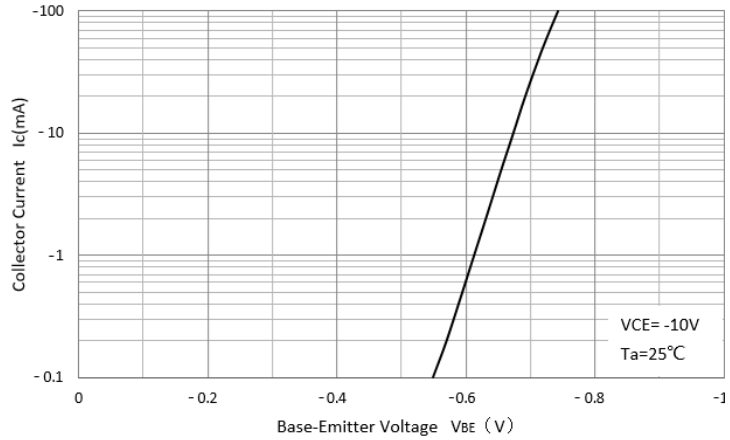
Collector-Emitter Saturation Voltage



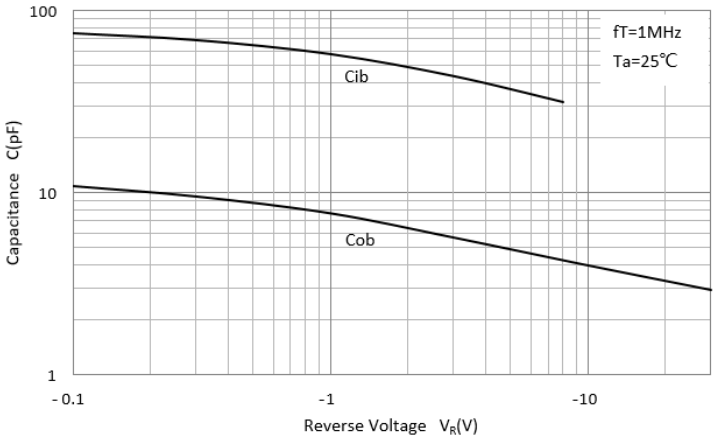
Base-Emitter Saturation Voltage



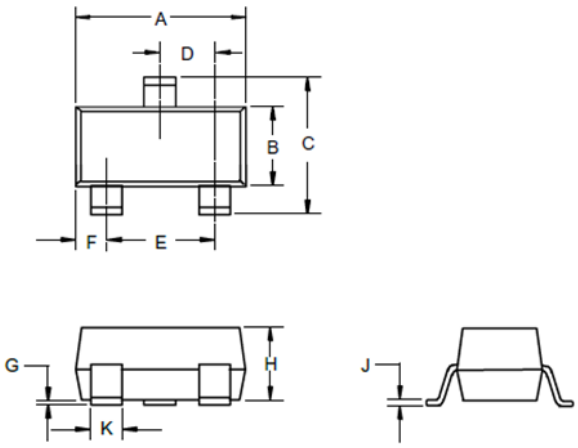
Base-Emitter On Voltage



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

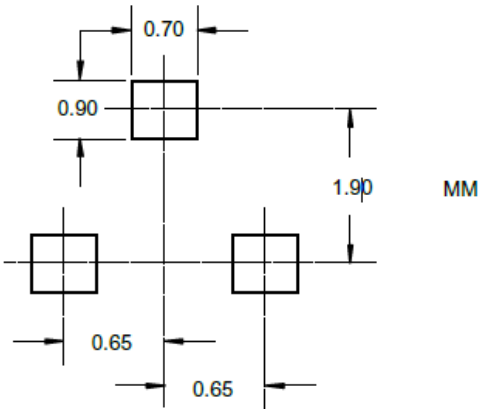


■ SOT-323 Package Outline Dimensions



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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