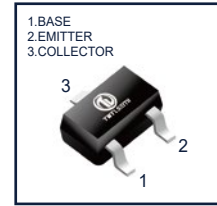
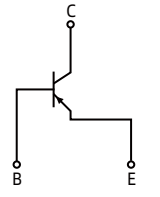


Features

- Complementary to MMST5551W
- Small Surface Mount Package
- Ideal for Medium Power Amplification and Switching



SOT-323



Equivalent Circuit

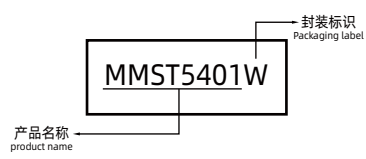
Absolute Maximum Ratings (T_A=25°C)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-160	V
V _{CE0}	Collector-Emitter Voltage	-150	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-0.6	A
P _C	Collector Power Dissipation	200	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J , T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-100μA, I _E =0	-160			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-150			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-10μA, I _C =0	-5			V
I _{CBO}	Collector cut-off current	V _{CB} =-120V, I _E =0			-50	nA
I _{EBO}	Emitter cut-off current	V _{EB} =-3V, I _C =0			-50	nA
h _{FE}	DC current gain	V _{CE} =-5V, I _C =-1mA	50			
		V _{CE} =-5V, I _C =-10mA	100		300	
		V _{CE} =-5V, I _C =-50mA	50			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-50mA, I _B =-5mA			-0.5	V
		I _C =-10mA, I _B =-1mA			-0.2	V
V _{BE(sat)}	Collector-emitter saturation voltage	I _C =-50mA, I _B =-5mA			-1	V
		I _C =-10mA, I _B =-1mA			-1	V
f _T	Transition frequency	V _{CE} =-10V, I _C =-10mA, f=100MHz	100			MHz
C _{ob}	Collector output capacitance	V _{CB} =-10V, I _E =0, f=1MHz			6	pF

Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
MMST5401W	SOT-323		K4M	100-300	3000



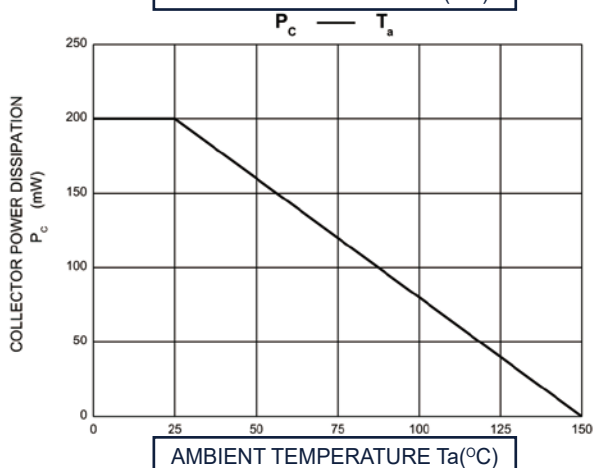
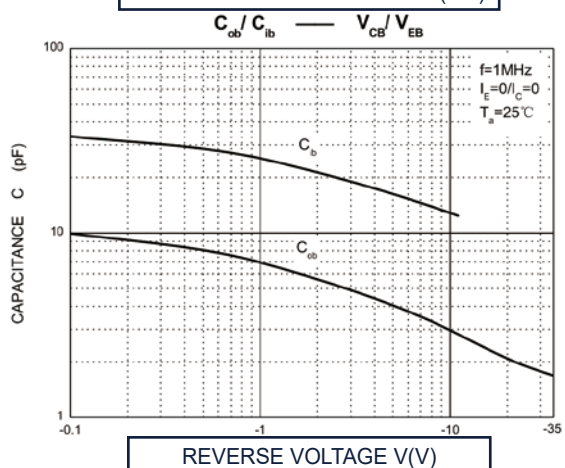
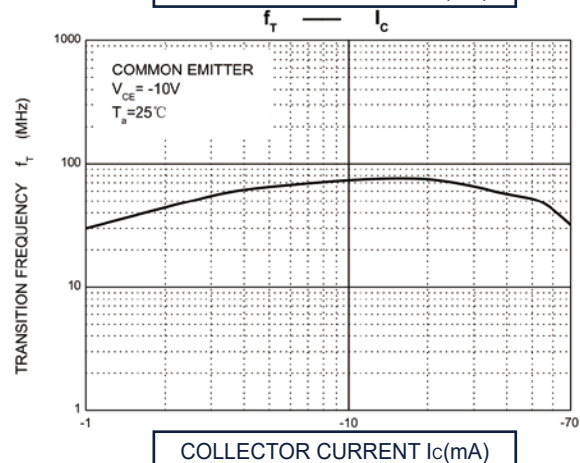
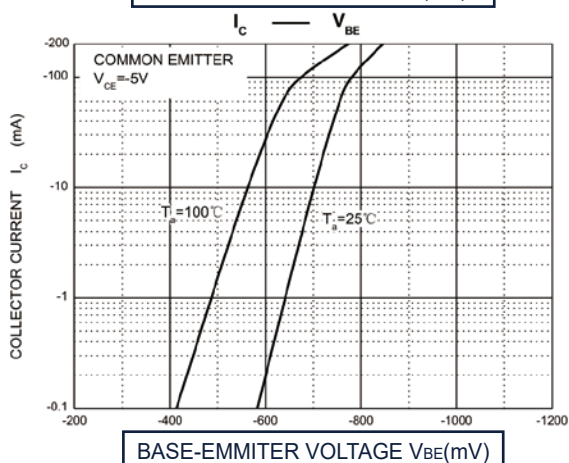
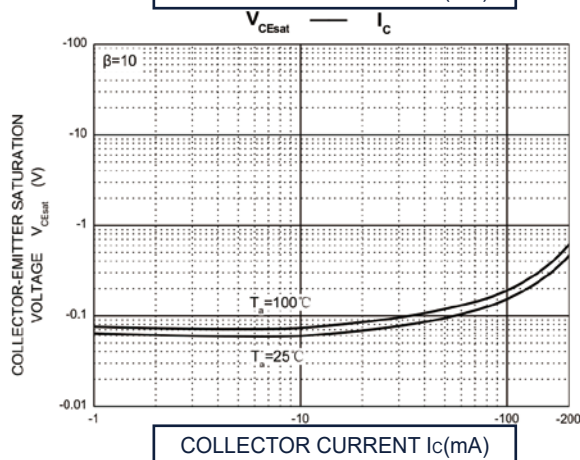
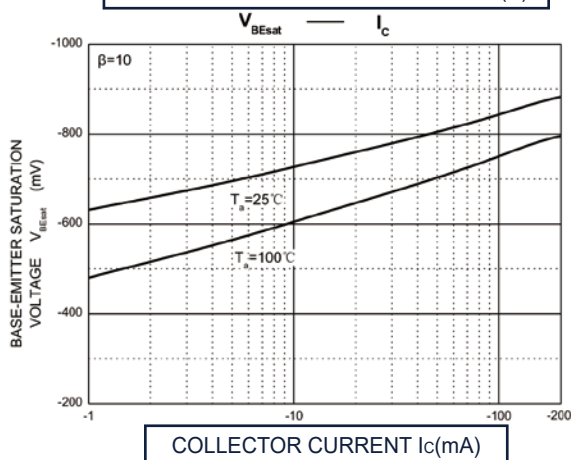
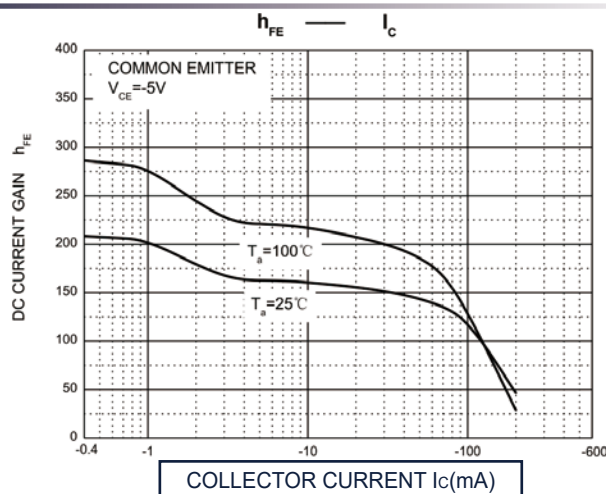
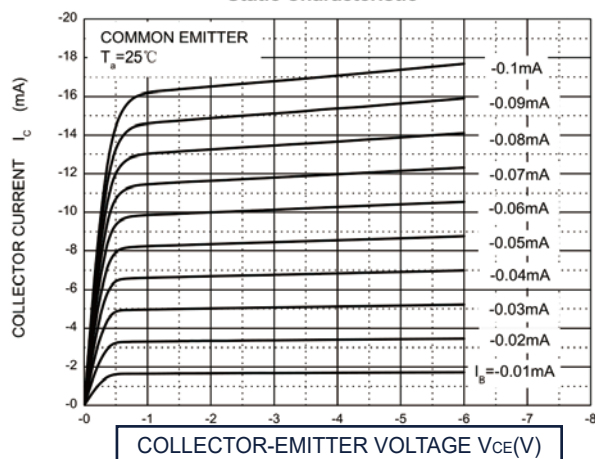
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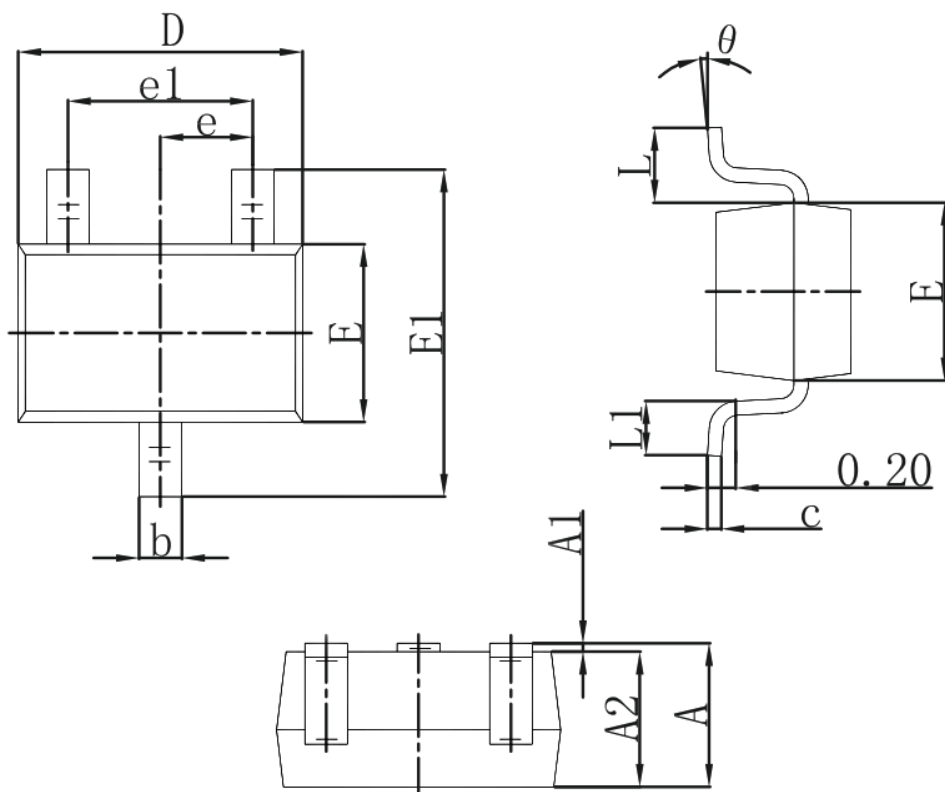
SOT-323 Plastic-Encapsulate Transistors (PNP)

Typical Characteristics

Static Characteristic



SOT-323 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	1.350	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°