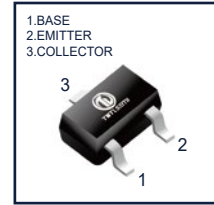
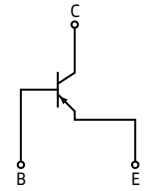


Features

- Complementary To MMST4401W
- Small Surface Mount Package



SOT-323



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	-40	V
V_{CE0}	Collector-Emitter Voltage	-40	V
V_{EB0}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.6	A
P_C	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

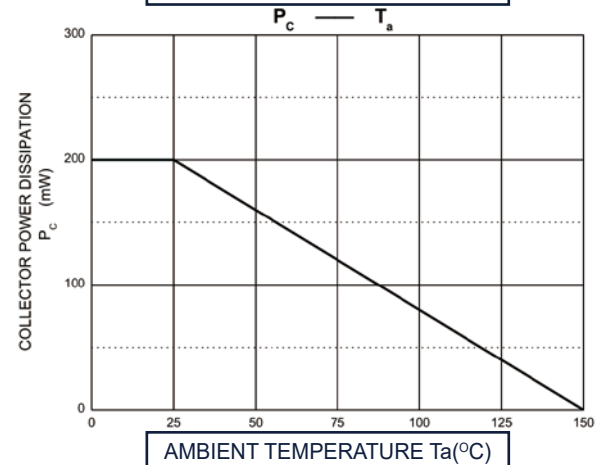
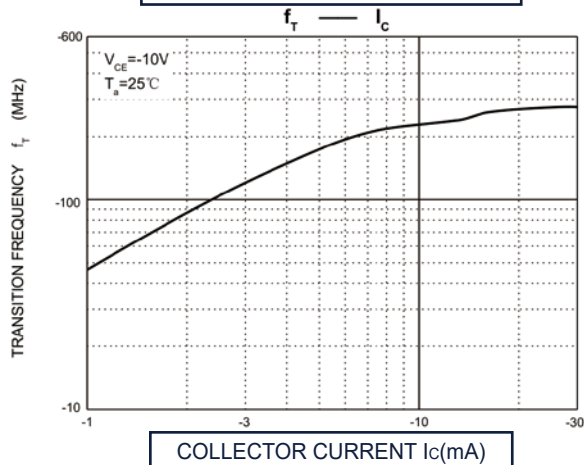
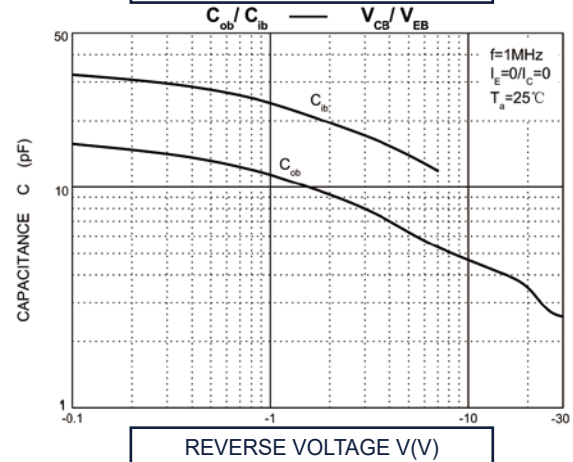
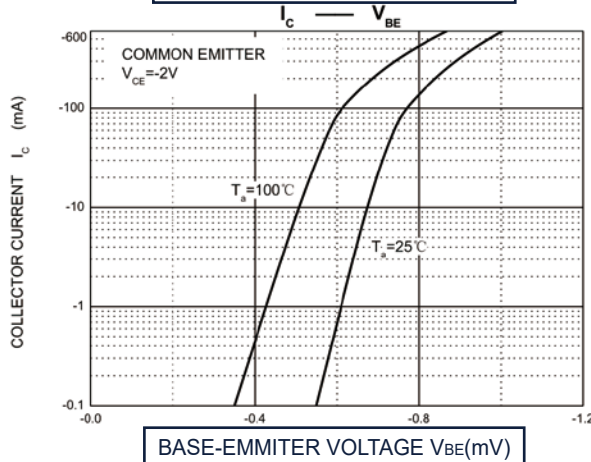
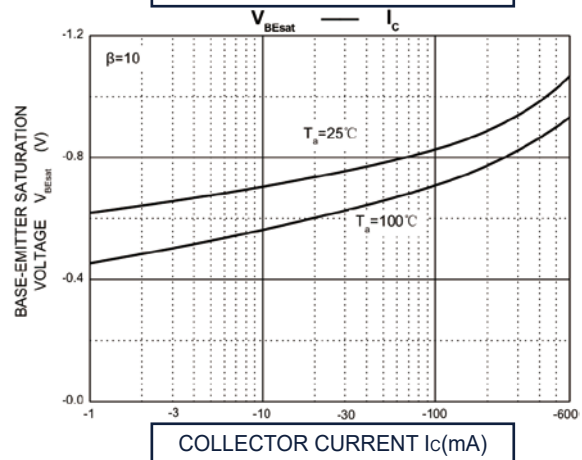
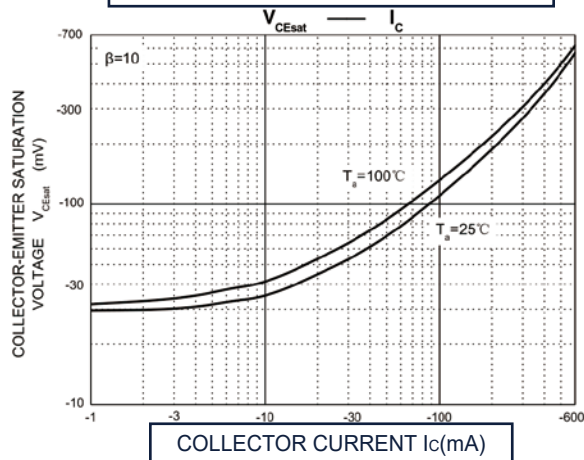
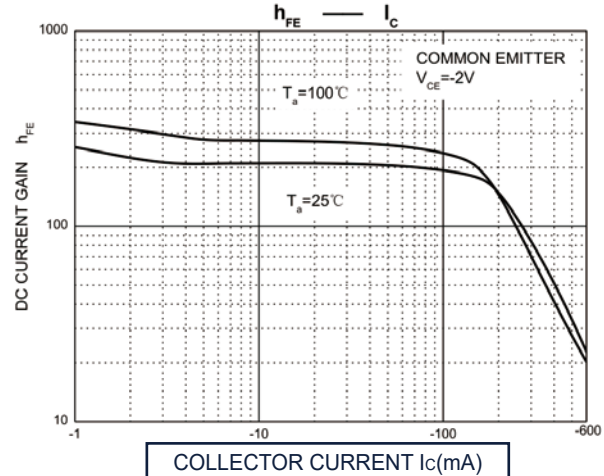
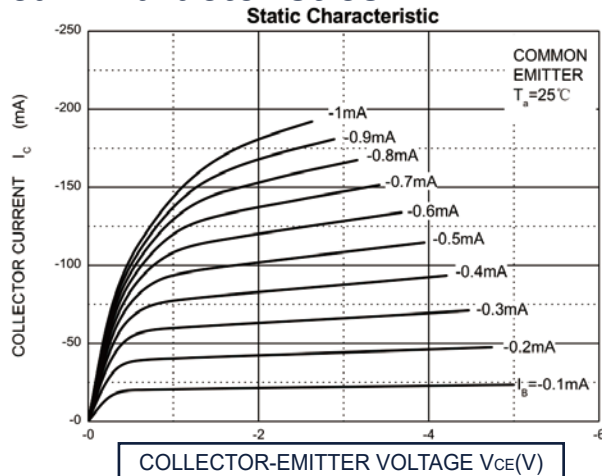
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-100\mu\text{A}, I_E=0$	-40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-1\text{mA}, I_B=0$	-40			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-100\mu\text{A}, I_C=0$	-5			V
I_{CBO}	Collector cut-off current	$V_{CB}=-35\text{V}, I_E=0$			-100	nA
I_{CEX}	Collector cut-off current	$V_{CE}=-35\text{V}, V_{BE}=-0.4\text{V}$			-100	nA
h_{FE}	DC current gain	$V_{CE}=-1\text{V}, I_C=-100\mu\text{A}$	30			
		$V_{CE}=-1\text{V}, I_C=-1\text{mA}$	60			
		$V_{CE}=-1\text{V}, I_C=-10\text{mA}$	100			
		$V_{CE}=-2\text{V}, I_C=-150\text{mA}$	100		300	
		$V_{CE}=-2\text{V}, I_C=-500\text{mA}$	20			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-150\text{mA}, I_B=-15\text{mA}$			-0.4	V
		$I_C=-500\text{mA}, I_B=-50\text{mA}$			-0.75	V
$V_{BE(sat)}$	Collector-emitter saturation voltage	$I_C=-150\text{mA}, I_B=-15\text{mA}$	-0.75		-0.95	V
		$I_C=-500\text{mA}, I_B=-50\text{mA}$			-1.3	V
f_T	Transition frequency	$V_{CE}=-10\text{V}, I_C=-20\text{mA}, f=100\text{MHz}$	200			MHz
C_{ob}	Collector output capacitance	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$			8.5	pF

Ordering information

Product ID	Pack	Naming rule	Marking	$h_{FE}(1)$	Qty(PCS)
MMST4403	SOT-323	MMST4403 产品名称 product name	K3T	100-300	3000

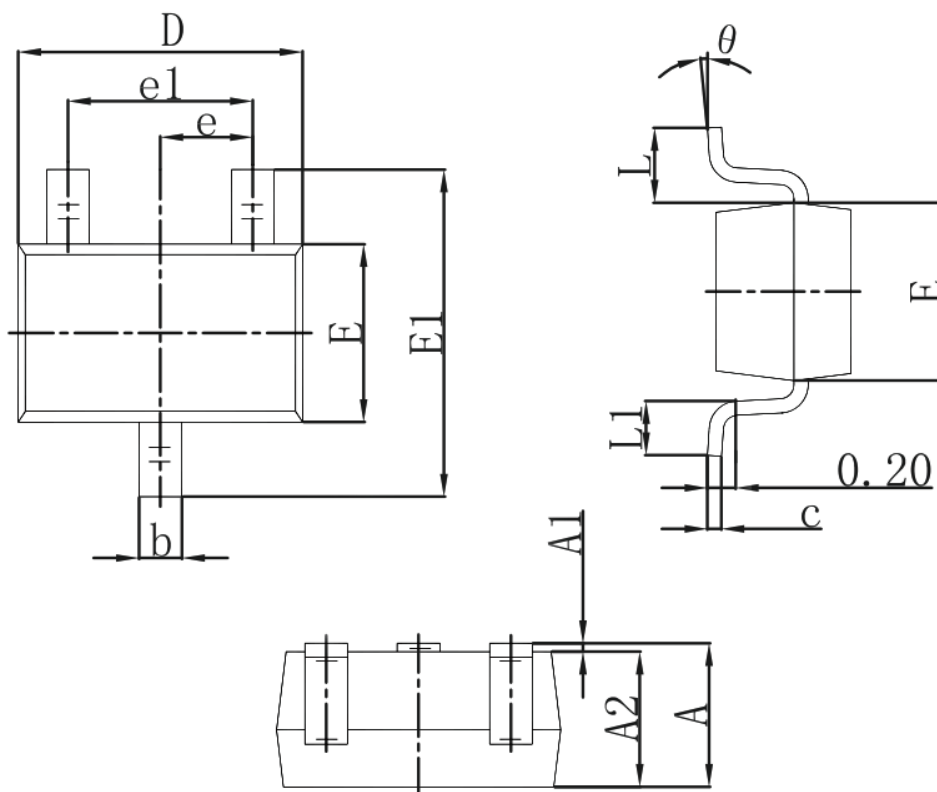


Typical Characteristics





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°