

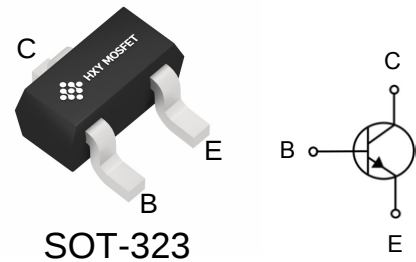


Features

- Complementary to MMST5401
- Small Surface Mount Package
- Ideal for Medium Power Amplification and Switching

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMST5550,115	SOT-323	K4N	3000



Maximum Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	0.6	A
P _C	Collector Power Dissipation	200	mW
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C
R _{θJA}	Thermal Resistance From Junction To Ambient	625	°C/W

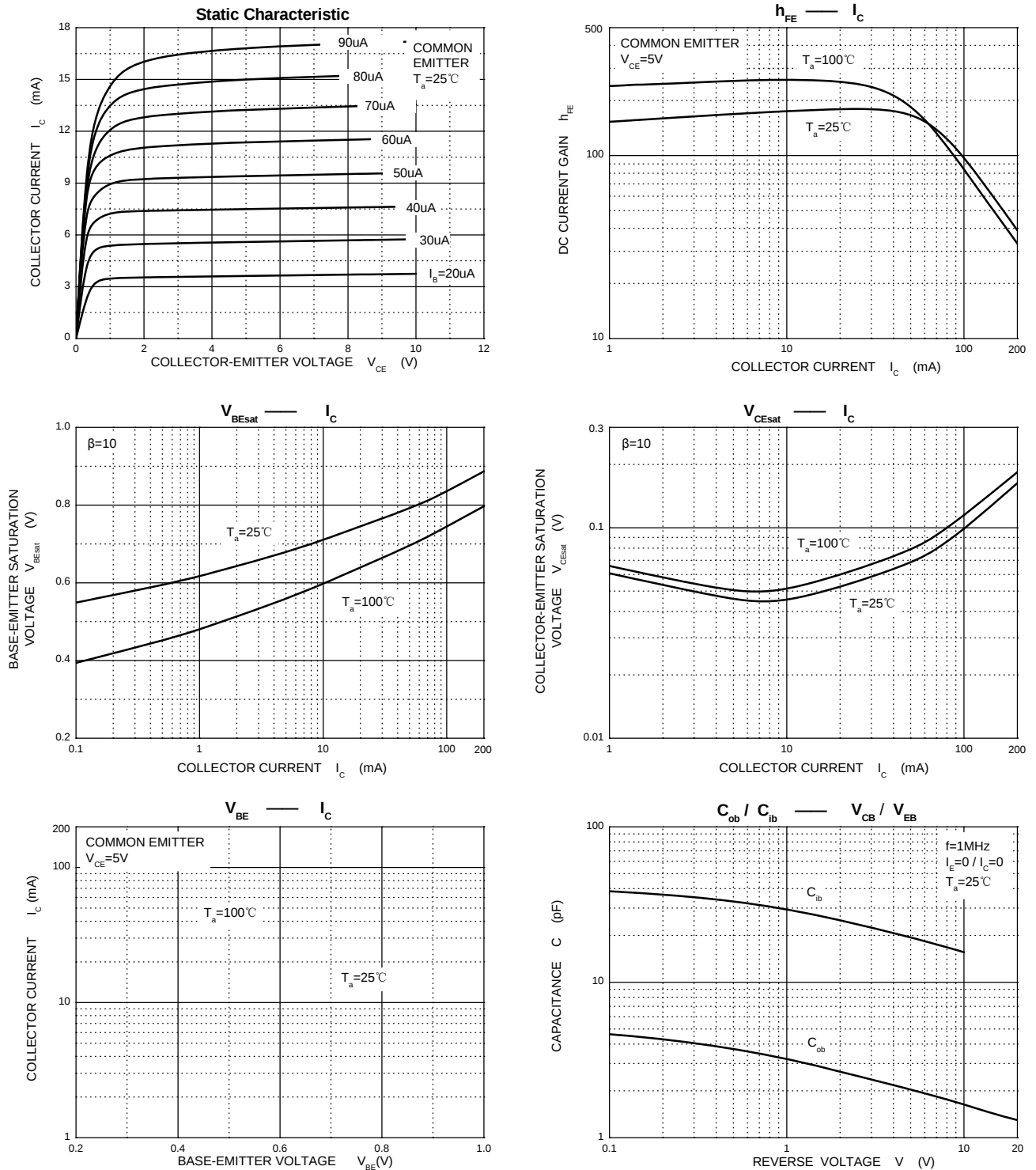
Electrical Characteristics (Ta=25 unless otherwise specified)

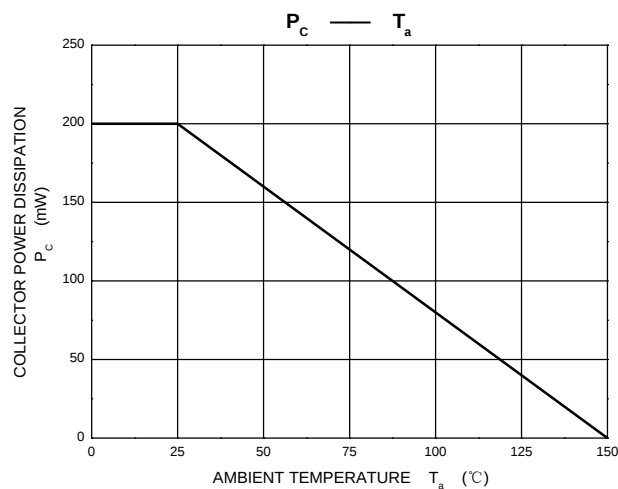
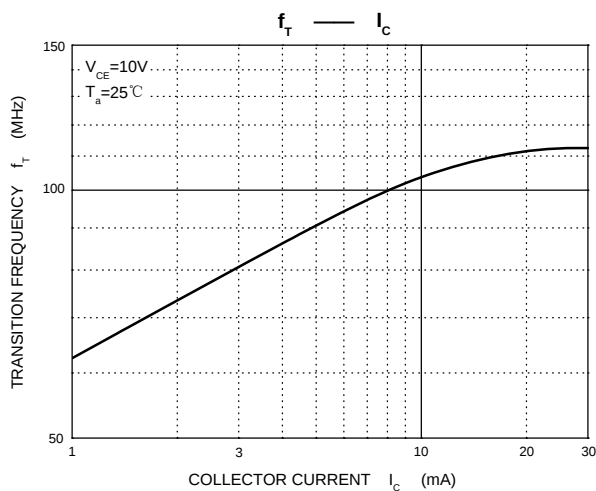
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	180		V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =1mA, I _B =0	160		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	6		V
Collector cut-off current	I _{CBO}	V _{CB} =120V, I _E =0		50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0		50	nA
DC current gain	h _{FE}	V _{CE} =5V, I _C =1mA	80		
		V _{CE} =5V, I _C =10mA	100	300	
		V _{CE} =5V, I _C =50mA	30		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA, I _B =5mA		0.2	V
		I _C =10mA, I _B =1mA		0.15	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =50mA, I _B =5mA		1	V
		I _C =10mA, I _B =1mA		1	V
Transition frequency	f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100	300	MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		6	pF

*Pulse test: pulse width ≤300μs, duty cycles ≤ 2.0%.



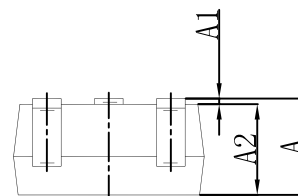
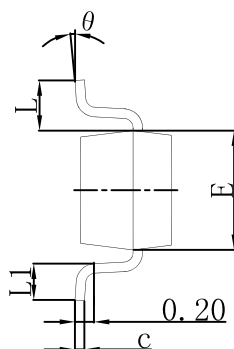
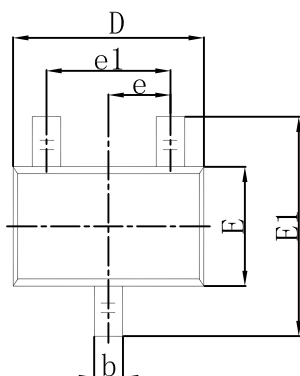
Typical Characteristics





Package Dimensions

SOT-323



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	2.150	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
K	0°	8°	0°	8°



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