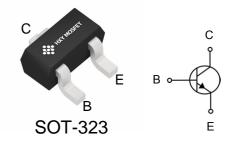


Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMST5551,115	SOT-323	K4N	3000



Maximum Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	180	V
VCEO	Collector-Emitter Voltage	160	V
VEBO	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	0.6	Α
Pc	Collector Power Dissipation	200	mW
T _j	Junction Temperature	150	Ç
T _{stg}	Storage Temperature	-55-150	$^{\circ}$
Roja	Thermal Resistance From Junction To Ambient	625	СW

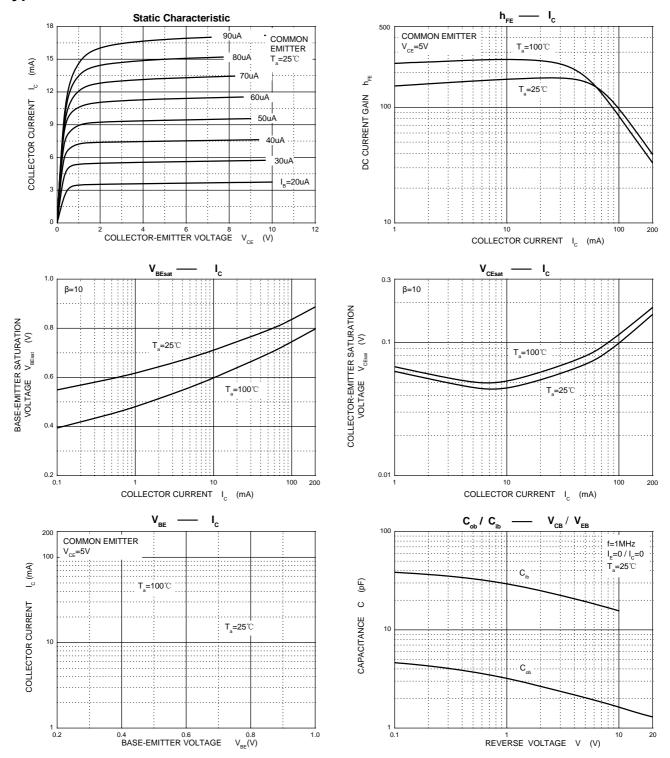
Electrical Characteristics (Ta=25 unless otherwise specified)

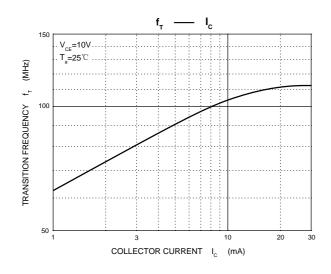
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	180		V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =1mA, I _B =0	160		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	6		V
Collector cut-off current	I _{CBO}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

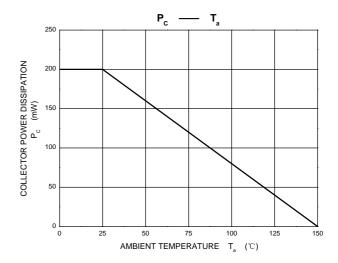
^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



Typical Characteristics

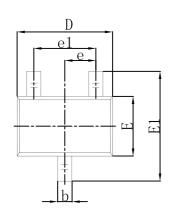


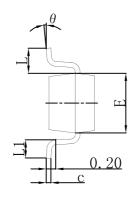


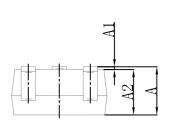


Package Dimensions

SOT-323







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	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	
е	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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