

Features

- Complementary to S9015W
- Small Surface Mount Package



SOT-323

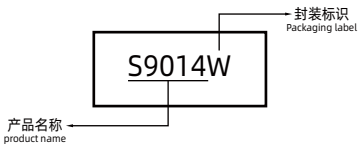
Absolute Maximum Ratings (TA=25°C)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	50	V
V _{CE0}	Collector-Emitter Voltage	45	V
V _{EB0}	Emitter-Base Voltage	5	V
I _c	Collector Current	0.1	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/W

Electrical Characteristics (TA=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	50			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _c =100μA, I _B =0	45			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector cut-off current	V _{CB} =50V, I _E =0			100	nA
I _{CEO}	Collector cut-off current	V _{CE} =35V, I _B =0			1	μA
I _{EBO}	Emitter cut-off current	V _{EB} =4V, I _C =0			100	nA
h _{FE}	DC current gain	V _{CE} =5V, I _C =1mA	200		1000	
V _{CE(sat)}	Collector-emitter saturation voltage	I _c =100mA, I _B =5mA			0.3	V
V _{BE(sat)}	Base-emitter saturation voltage	I _c =100mA, I _B =5mA			1	V
V _{BE}	Base-emitter voltage	V _{CE} =5V, I _C =2mA	0.58		0.7	V
f _T	Transition frequency	V _{CE} =5V, I _C =10mA, f=30MHz	150			MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0, f=1MHz			3.5	pF

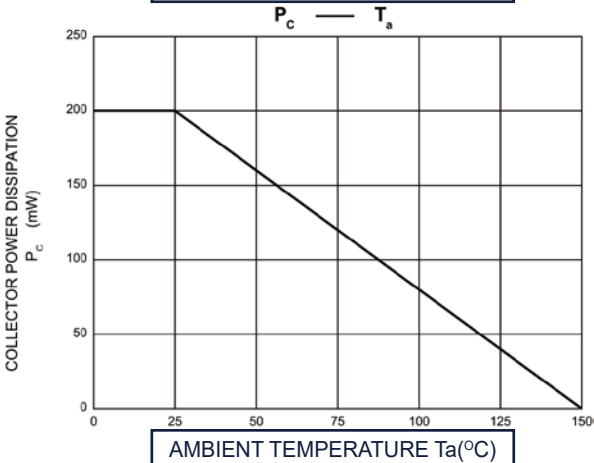
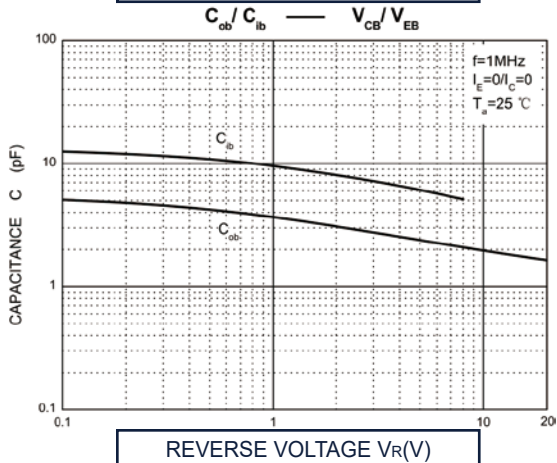
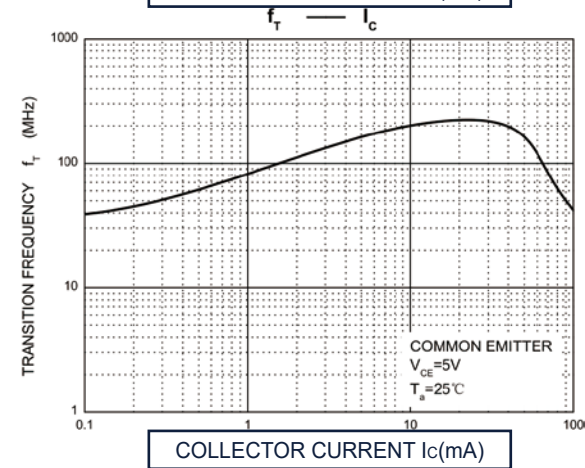
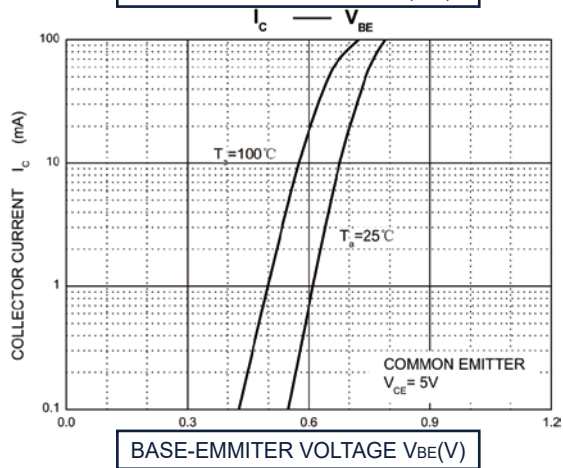
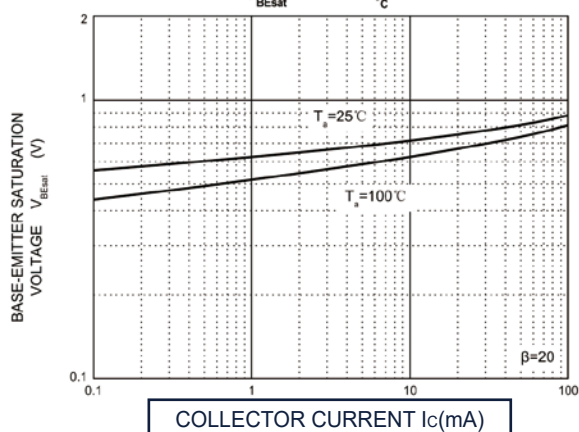
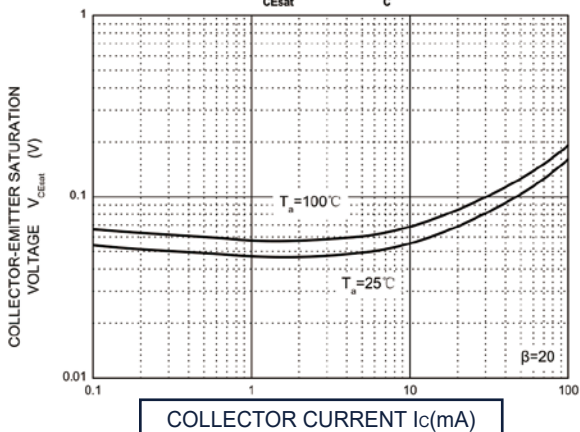
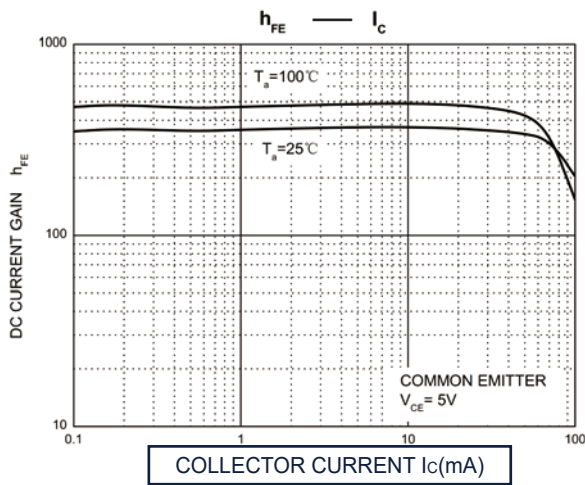
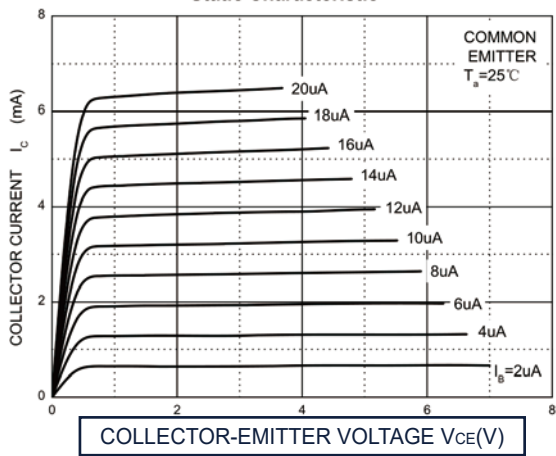
Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
S9014W	SOT-323		J6	300-400	3000



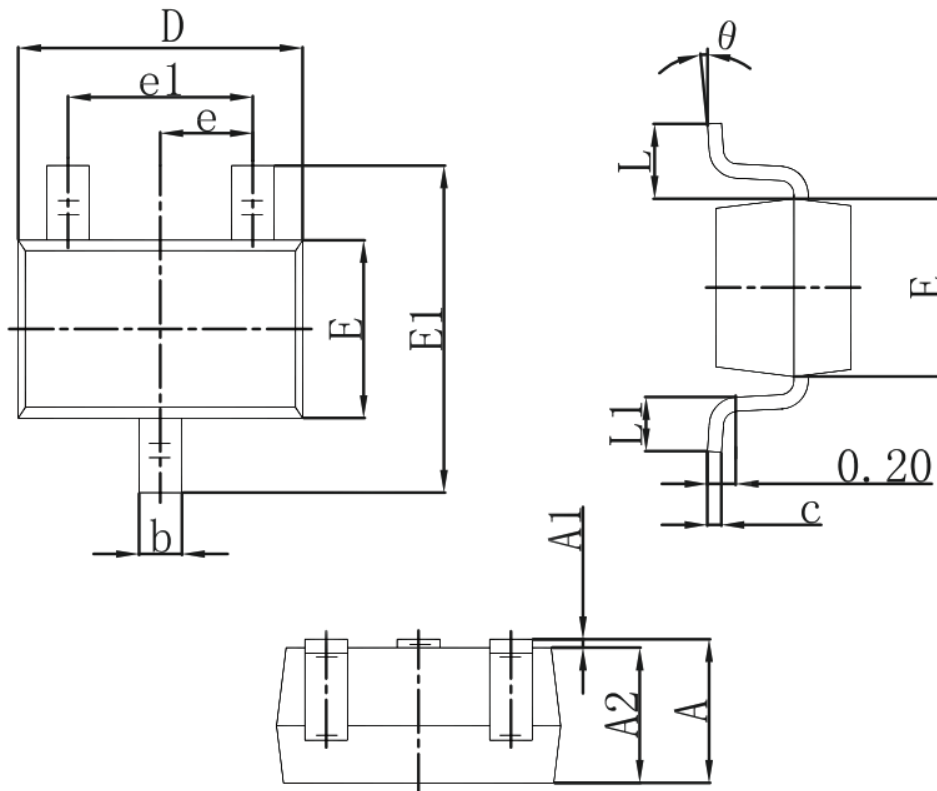
Typical Characteristics

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°