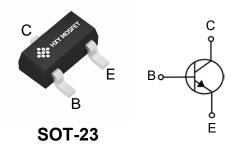


Features

Collector Current: I_C= 2.5A
 Power Dissipation of 350mW

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PBSS4320T	SOT-23	618	3000



Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	20	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	2.5	Α
I _B	Collector Current	2	Α
Pc	Collector Power Dissipation	350	mW
R _{⊝JA}	Thermal Resistance From Junction To Ambient	500	°C/W
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55∼+150	$^{\circ}$

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

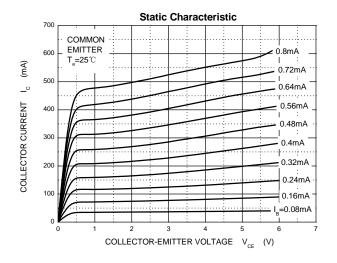
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C =100μA,I _E =0	20			V
Collector-emitter breakdown voltage (note 1)	$V_{(BR)CEO}$	I _C =10mA,I _B =0	20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =100μA ,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =16V,I _E =0			100	nA
Emitter cut-off current	I _{EBO}	$V_{EB}=4V,I_{C}=0$			100	nA
	h _{FE(1)}	V _{CE} =2V, I _C =10mA	200			
DC ourrent gain (note 1)	h _{FE(2)}	V _{CE} =2V, I _C =0.2A	300			
DC current gain (note 1)	h _{FE(3)}	V _{CE} =2V, I _C =2A	200			
	h _{FE(4)}	$V_{CE}=2V$, $I_{C}=4A$	100			
	V _{CE(sat)1}	I _C =0.1A,I _B =10mA	5 200 300 200 100	15	mV	
Collector-emitter saturation voltage (note 1)	V _{CE(sat)2}	I _C =1A,I _B =10mA			150	mV
	$V_{\text{CE(sat)3}}$	I _C =2 Ĕ A,I _B =Í 0mA			200	mV
Base-emitter saturation voltage (note 1)	$V_{BE(sat)}$	I _C =2Ě A,I _B =50mA			1	V
Base-emitter on voltage (note 1)	$V_{BE(on)}$	I _C =2Ě A, V _{CE} =2V			1	V
Output capacitance	C_{ob}	V _{CB} =10V, f=1MHz			30	pF
Turn-on time	t _(on)	V _{CC} =10V, I _C =1A, I _{B1} =-I _{B2} =10mA		170		ns
Turn-off time	t _(off)	VCC-10 v, 1C-1A, 1B1=-1B2=1011IA		400		ns
Transition frequency	f _T	V _{CE} =10V,I _C =50mA, f=100MHz	100			MHz

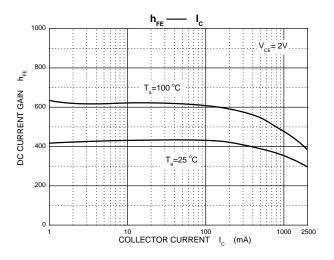
Notes:

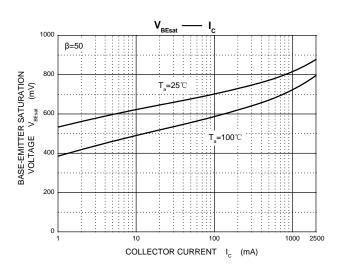
1. Pulse test: Pulse width≤300µs,duty cycle≤2.0%.

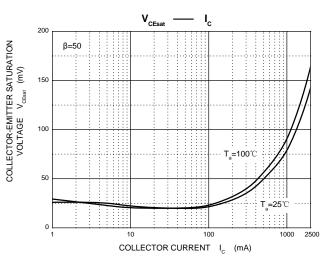


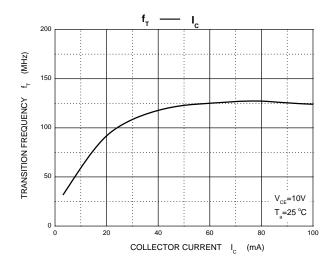
Typical Characteristics

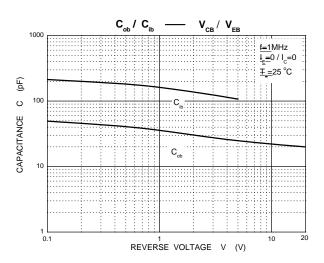


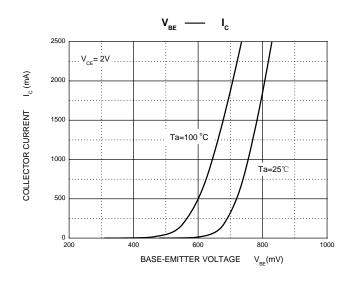


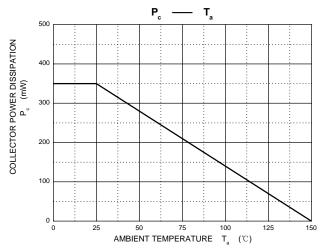




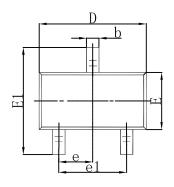


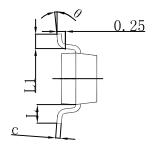


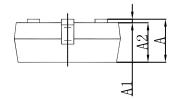




SOT-23 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	



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