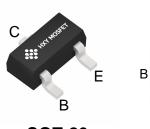


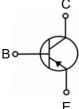
Features

Low equivalent on-resistance

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
PBSS5160T	SOT-23	591	3000	





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

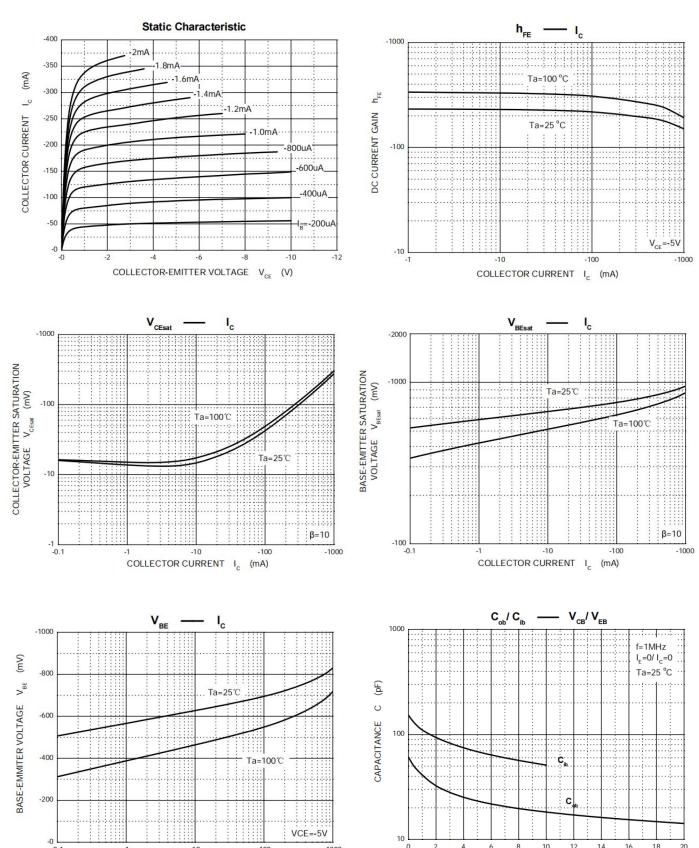
Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-60	V	
V_{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current	-1	Α	
I _{CM}	Peak Pulse Current	-2	А	
Pc	Collector Power Dissipation	250	mW	
R _{⊝JA}	Thermal Resistance From Junction To Ambient	500	°C/W	
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55~+150	°C	

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-80		V
Collector-emitter breakdown voltage	V _{(BR)CEO} ¹	I _C =-10mA, I _B =0	-60		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-60V, I _E =0		-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0		-0.1	μΑ
	h _{FE(1)}	V _{CE} =-5V, I _C =-1mA	100		
DC current gain	h _{FE(2)} ¹	V _{CE} =-5V, I _C =-500mA	100	300	
	h _{FE(3)} ¹	V _{CE} =-5V, I _C =-1A	80		
	h _{FE(4)} ¹	V _{CE} =-5V, I _C =-2A	15		
Callegtor emitter acturation valtage	-emitter saturation voltage			-0.3	V
Collector-emitter saturation voltage				-0.6	V
Base-emitter saturation voltage	V _{BE(sat)} 1	I _C =-1A, I _B =-100mA		-1.2	V
Base-emitter voltage	V _{BE} ¹	V _{CE} =-5V, I _C =-1A		-1	V
Transition frequency	f⊤	V _{CE} =-10V,I _C =-50mA,,f=100MHz	150		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHz		10	pF

¹Measured under pulsed conditions, Pulse width=300μs, Duty cycle≤2%.

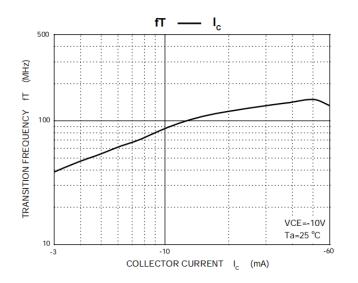
Typical Characteristics

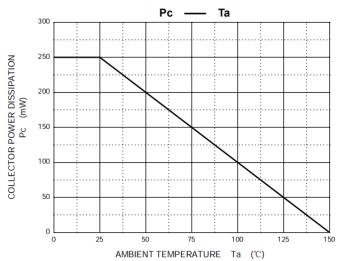


COLLCETOR CURRENT I_c (mA)

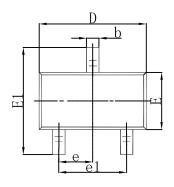
REVERSE VOLTAGE V (V)

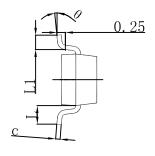


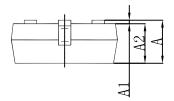




SOT-23 Package Outline Dimensions







Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	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	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	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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