PBSS5120T

	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage	V_{CEO}	V	I_C=-1mA, I_B=0	-20
Collector-Base Voltage	V_{CBO}	V	I_C=-100uA, I_E=0	-20
Emitter-Base Voltage	V_{EBO}	V	I_E=-100uA, I_C=0	-5
Collector Current	I_C	A		-1
Collector Power Dissipation	Pc	mW		300

vElectrical Characteristics ÄTa=25 - Å

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CEO}	V	I_C=-1mA, I_B=0	-20	
Collector-Base Voltage	V_{CBO}	V	I_C=-100uA, I_E=0	-20	
Emitter-Base Voltage	V_{EBO}	V	I_E=-100uA, I_C=0	-5	
Collector-base Cut-off Current	I_{CBO}	nA	V_{CB}=-20V		-100
Base-emitter Cut-off Current	I_{EB0}	nA	V_{EB}=-4V		-100
DC Current Gain	h_{FE}		I_C=-100mA V_{CE}=-2V	300	
			I_C=-500mA V_{CE}=-2V	250	
			I_C=-1A V_{CE}=-2V	200	
CollectorEmitter Saturation Voltage	$V_{CE(sat)}1$	mV	I_C=-100mA I_B=-1mA		-100
	$V_{CE(sat)}2$	mV	I_C=-500A I_B=-50mA		-125
	$V_{CE(sat)}3$	mV	I_C=-1A I_B=-50mA		-250
Equivalent On-Resistance	$R_{CE(sat)}$	m ¡	I_C=-500mA I_B=-50mA		250
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	I_C=-1A I_B=-100mA		-1.1
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	V	I_C=-100mA V_{CE}=-2V		-0.75
Transition frequency	f_T	MHz	I_C=-100mA,V_{CE}=-10V,f=100MHz	100	
Collector Capacitance	Cob	pF	VCB=-10V,IE=0, f=1MHz		28

vCharacteristics (Typical)

vSOT-23 Package Outline Dimensions

SOT-23 Soldering Footprint

Disclaimer

The information presented in this document is for reference only.