



迈拓电子  
MAITUO ELECTRONIC

## PBSS5350T

### Descriptions

Silicon PNP transistor in a SOT-23 Plastic Package.

### Features

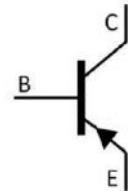
Low  $V_{CE(sat)}$ , high current.

### Applications

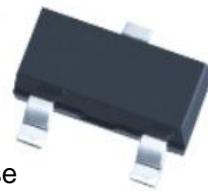
General purpose switching and muting

LCD back-lighting

Supply line switching circuits.



3 Collector



1 Base

2 Emitter

SOT23

### $h_{FE}$ Classifications & Marking

$h_{FE}$ Range	>200
Marking	ZDH



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Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-50	V
Collector to Emitter Voltage	$V_{CEO}$	-50	V
Emitter to Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-2	A
Peak Collector Current	$I_{CM}$	-5	A
Base Current	$I_B$	-0.5	A
Total Power Dissipation	$P_{tot}$	300	mW
Total Power Dissipation	$P_{tot}$ (注1、2)	1.2	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-65~150	°C

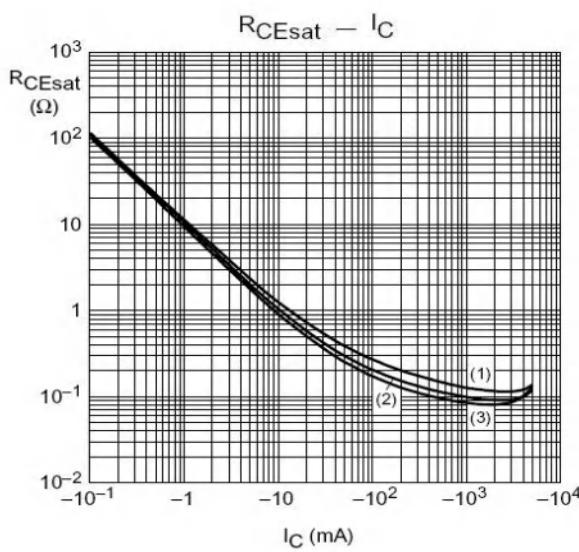
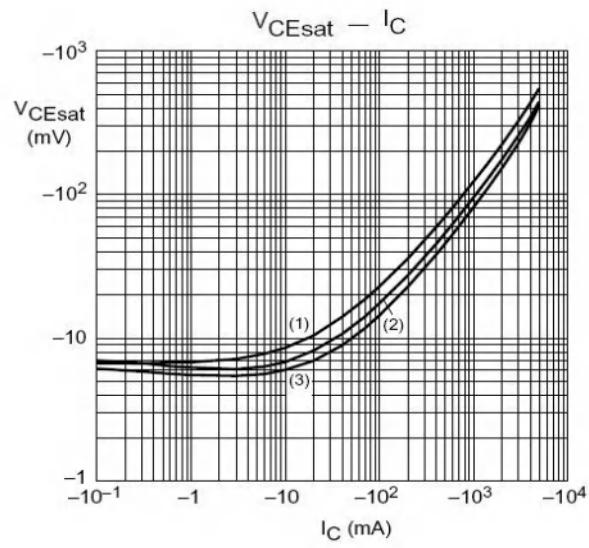
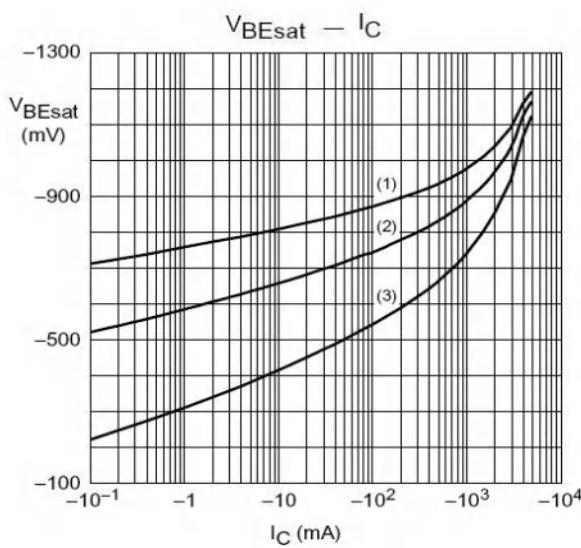
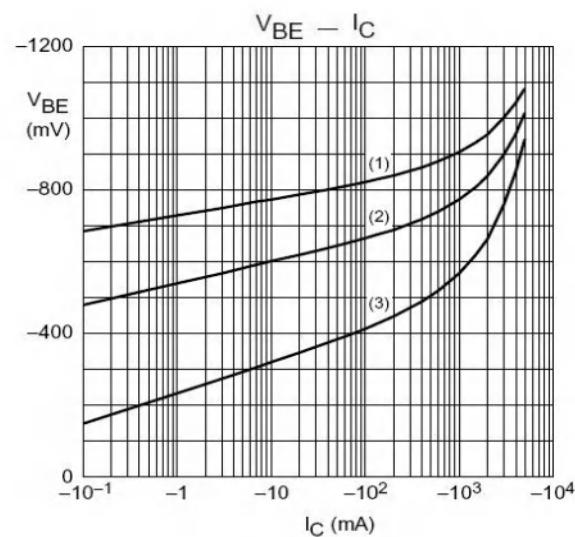
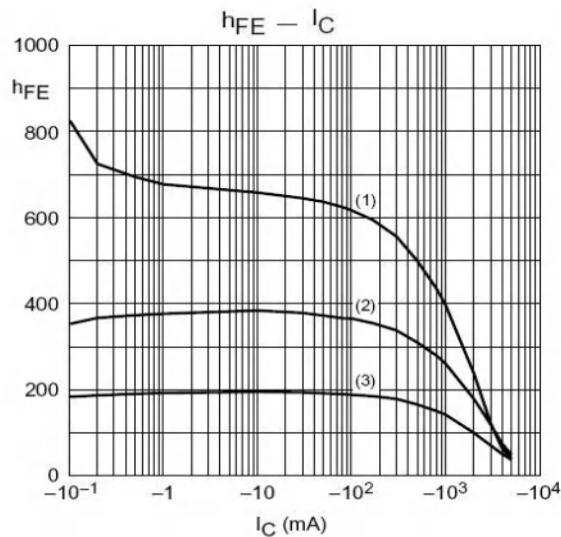
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-50V \quad I_E=0$			-100	nA
		$V_{CB}=-50V \quad I_E=0$ $T_j=150^\circ C$			-50	μA
emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V \quad I_C=0$			-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V \quad I_C=-100mA$	200			
	$h_{FE(2)}$	$V_{CE}=-2.0V \quad I_C=-500mA$	200			
	$h_{FE(3)}^*$	$V_{CE}=-2.0V \quad I_C=-1.0A$	200			
	$h_{FE(4)}^*$	$V_{CE}=-2.0V \quad I_C=-2.0A$	130			
	$h_{FE(5)}^*$	$V_{CE}=-2.0V \quad I_C=-3.0A$	80			
Collector-Emitter Saturation Voltage	$V_{CE(sat)(1)}^*$	$I_C=-500mA \quad I_B=-50mA$			-80	mV
	$V_{CE(sat)(2)}^*$	$I_C=-2.0A \quad I_B=-100mA$			-320	mV
Equivalent On-Resistance	$R_{CE(sat)}^*$	$I_C=-2.0A \quad I_B=-200mA$		90	135	μΩ
Base-Emitter Saturation Voltage	$V_{BE(sat)}^*$	$I_C=-2.0A \quad I_B=-100mA$			-1.1	V
		$I_C=-3.0A \quad I_B=-300mA$			-1.2	V
Base-Emitter Voltage	$V_{BE(ON)}^*$	$V_{CE}=-2.0V \quad I_C=-1.0A$			-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-5.0V \quad I_C=-100mA$ $f=100MHz$	100			MHz
Collector Capacitance	$C_C$	$V_{CB}=-10V \quad I_E=0$ $f=1.0MHz$			35	pF



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### Electrical Characteristic Curve



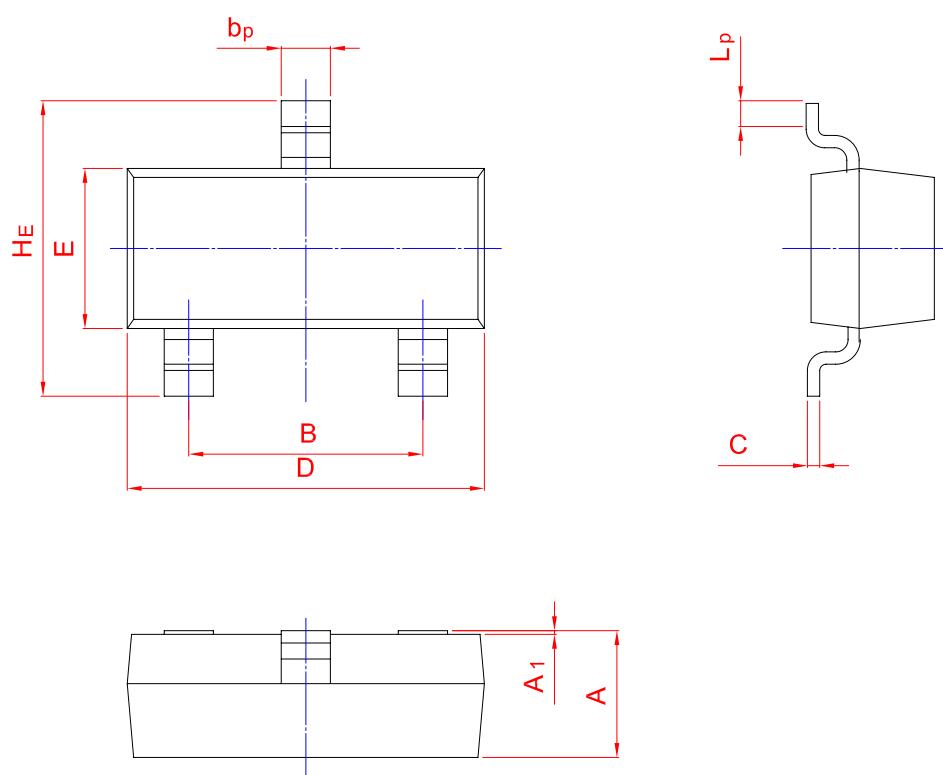


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## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	$b_p$	C	D	E	$H_E$	$A_1$	$L_p$
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20