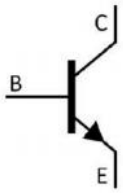
迈拓电子
MAITUO ELECTRONIC

PBSS4350T



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	>300
Marking	HZC

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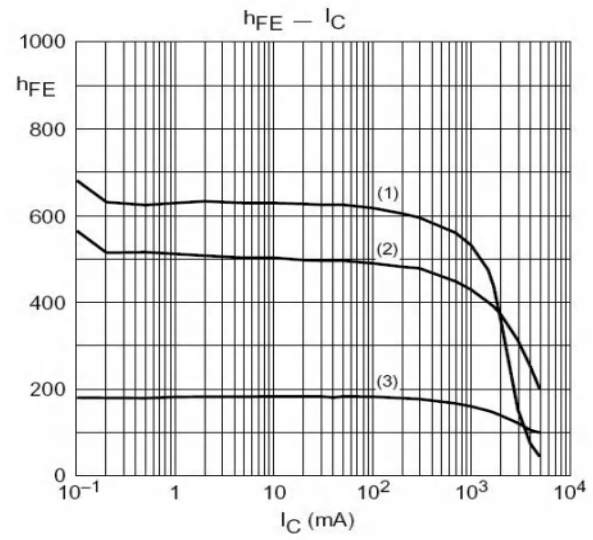
Absolute Maximum Ratings(Ta=25℃)

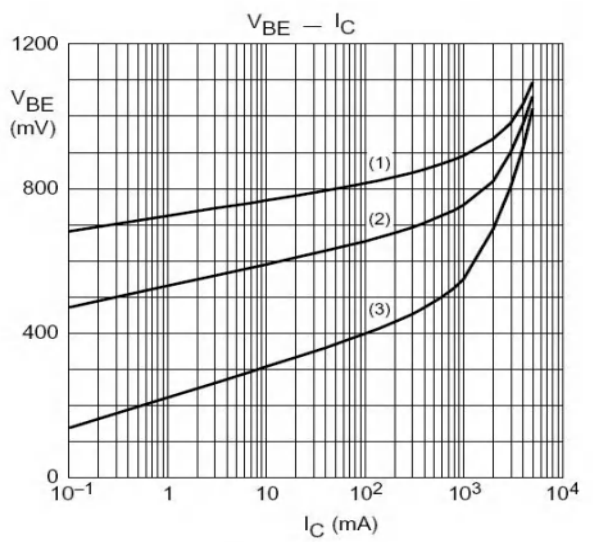
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	50	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current	I_C	2	A
Peak Collector Current	I_{CM}	5	A
Base Current	I_B	0.5	A
Total Power Dissipation	$P_{tot(1)}$	300	mW
	$P_{tot(2)}$	1.2	W
Junction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

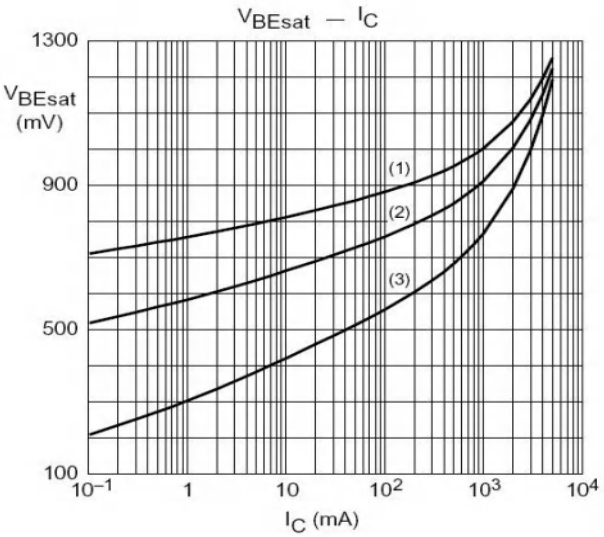
Electrical Characteristics(Ta=25℃)

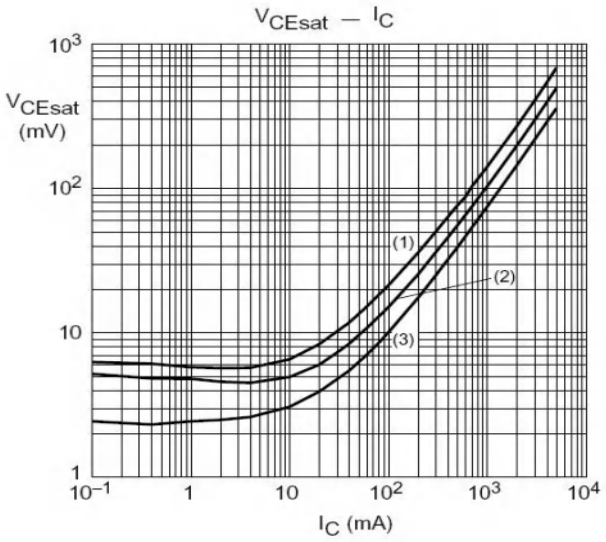
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=50V I_E=0			100	nA
		V_{CB}=50V I_E=0 T_j=150℃			50	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			100	nA
DC Current Gain	$h_{FE(1)}$	V_{CE}=2.0V I_C=100mA	300			
	$h_{FE(2)}$	V_{CE}=2.0V I_C=500mA	300			
	$h_{FE(3)}$*	V_{CE}=2.0V I_C=1.0A	300			
	$h_{FE(4)}$*	V_{CE}=2.0V I_C=2.0A	200			
	$h_{FE(5)}$*	V_{CE}=2.0V I_C=3.0A	100			
Collector-Emitter Saturation Voltage	$V_{CE(sat)(1)}$	I_C=500mA I_B=50mA			80	mV
	$V_{CE(sat)(2)}$*	I_C=2.0A I_B=100mA			280	mV
Equivalent On-Resistance	$R_{CE(sat)}$*	I_C=2.0A I_B=200mA		100	130	mΩ
Base-Emitter Saturation Voltage	$V_{BE(sat)}$*	I_C=2.0A I_B=100mA			1.1	V
		I_C=3.0A I_B=300mA			1.2	V
Base-Emitter Voltage	$V_{BE(ON)}$*	V_{CE}=2.0V I_C=1.0A			1.2	V
Transition Frequency	f_T	V_{CE}=5.0V I_C=100mA f=100MHz	100			MHz
Collector Capacitance	C_C	V_{CB}=10V I_E=0 f=1.0MHz			25	pF

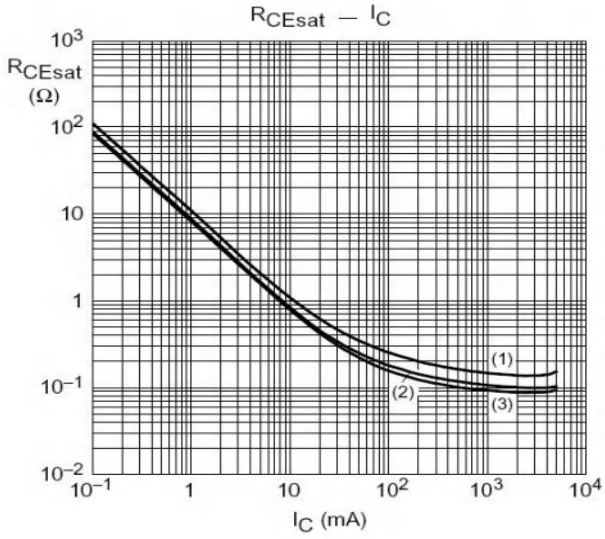
Electrical Characteristic Curve











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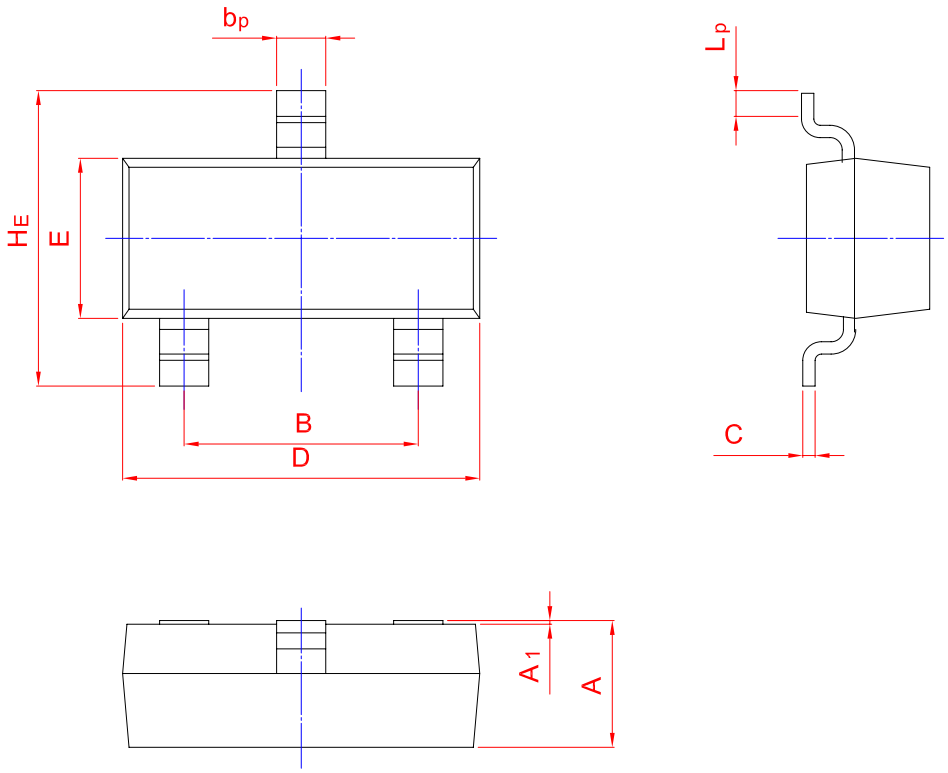
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads **SOT-23**



UNIT	A	B	bp	C	D	E	HE	A1	Lp
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