

Descriptions

Silicon PNP transistor in a SOT-23 Plastic Package.

Features

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

Applications

General purpose switching and muting

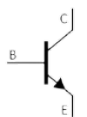
LCD back-lighting

Supply line switching circuits.

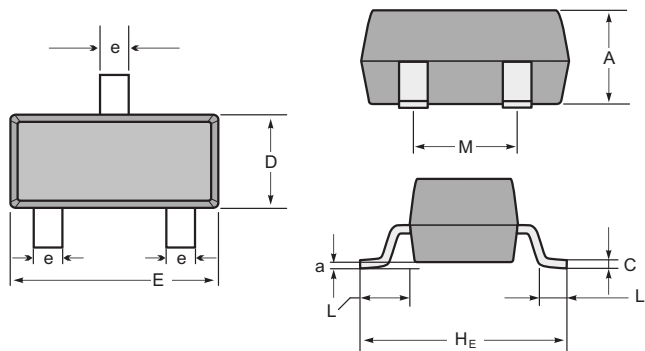


FE Classifications & Marking

h_{FE} Range	>200
Marking	ZDH



SOT-23



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

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

PBSS5350T

Electrical Characteristics(Ta=25°C)

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

RATING AND CHARACTERISTIC CURVES (PBSS5350T)

