

SOT-23 Plastic-Encapsulate Transistors

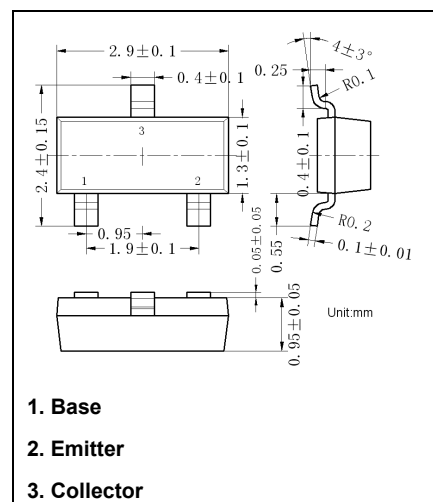
SS8550

PNP Transistors

Features

- Complimentary to SS8050
- High Collector Current

Marking: Y2



Maximum Ratings ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector Base Voltage	-40	V
V_{CEO}	Collector Emitter Voltage	-25	V
V_{EBO}	Emitter Base Voltage	-5	V
I_C	Collector Current	-1.5	A
P_C	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	417	$^{\circ}\text{C/W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55 ~ +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -100\mu\text{A}$, $I_E = 0$	-40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -0.1\text{mA}$, $I_B = 0$	-25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu\text{A}$, $I_C = 0$	-5			V
I_{CBO}	Collector cut-off current	$V_{CB} = -40\text{V}$, $I_E = 0$			-100	nA
I_{CEO}	Collector cut-off current	$V_{CE} = -20\text{V}$, $I_B = 0$			-100	nA
I_{EBO}	Emitter cut-off current	$V_{EB} = -5\text{V}$, $I_C = 0$			-100	nA
$h_{FE(1)}$	DC current gain	$V_{CE} = -5\text{V}$, $I_C = -1\text{mA}$	120			
$h_{FE(2)}$		$V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$	200		400	
$h_{FE(3)}$		$V_{CE} = -1\text{V}$, $I_C = -800\text{mA}$	40			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$			-0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$			-1.2	V
V_{BE}	Base-emitter voltage	$V_{CE} = -1\text{V}$, $I_C = -10\text{mA}$			-1	V
f_T	Transition frequency	$V_{CE} = -10\text{V}$, $I_C = -50\text{mA}$, $f = 30\text{MHz}$	100			MHz
C_{ob}	Collector output capacitance	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$			20	pF

Classification OF $h_{FE(1)}$

Rank	L	H
Range	200-350	350-400

Typical Characteristics

