



SS8550 TRANSISTOR (PNP)

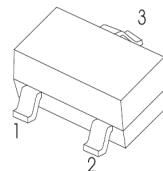
FEATURES

- High Collector Current
- Complementary to SS8050

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
$R_{\theta\text{JA}}$	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	$^{\circ}\text{C}$

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1. BASE
2. EMITTER
3. COLLECTOR

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

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

CLASSIFICATION OF $h_{\text{FE}(1)}$

RANK	L	H	J
RANGE	120 - 200	200 - 350	300 - 400
MARKING	Y2		

Typical Characteristics

SS8550

