

SS8550KE Transistor(PNP)

Feature

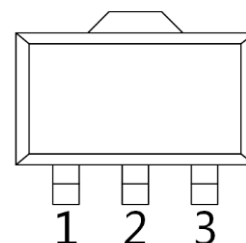
- In compliance with SS8050KE

Marking: Y2

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-1.5	A
Power Dissipation	P_d	0.5	W
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^{\circ}\text{C/W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~ +150	$^{\circ}\text{C}$

SOT-89-3L

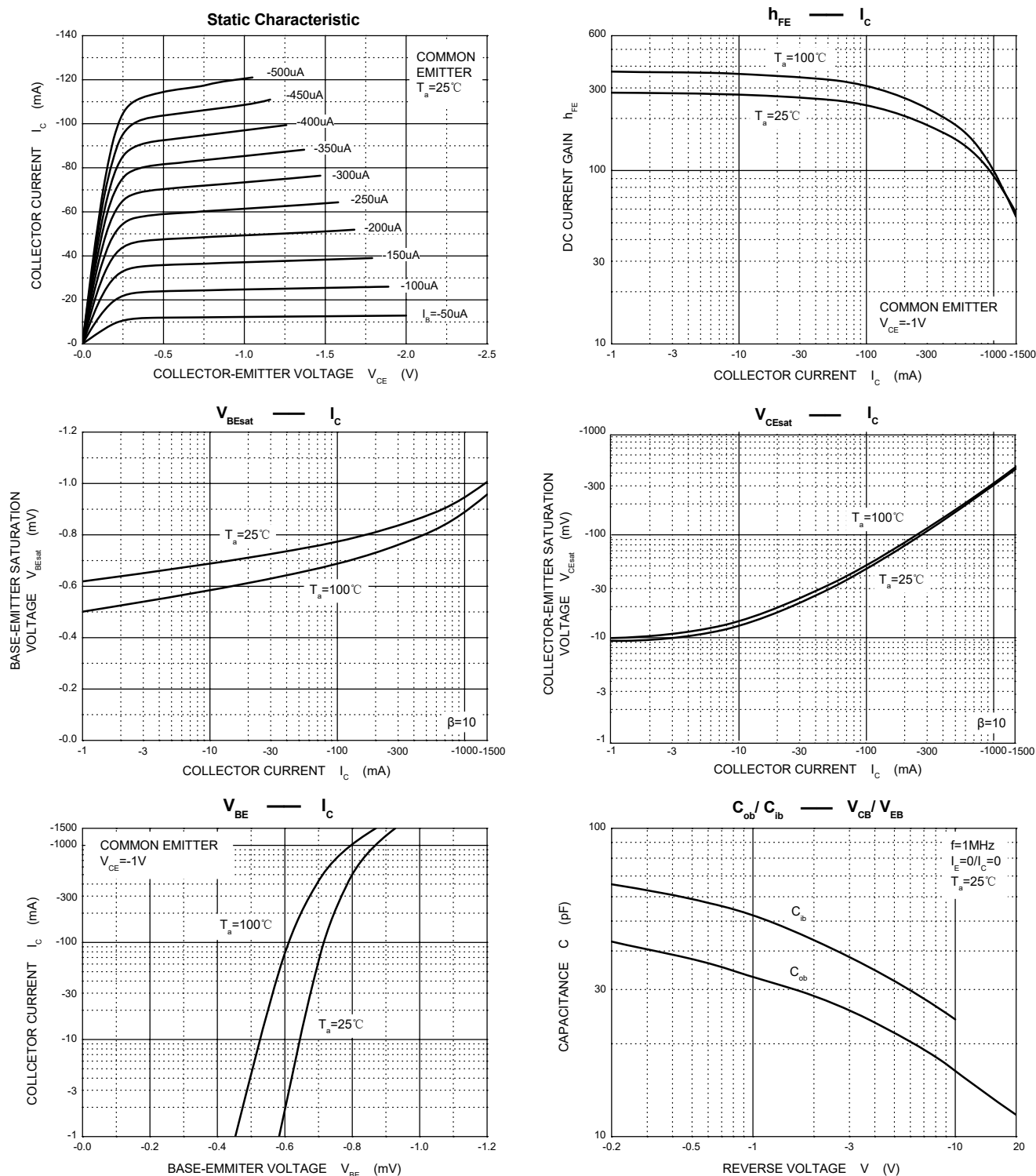


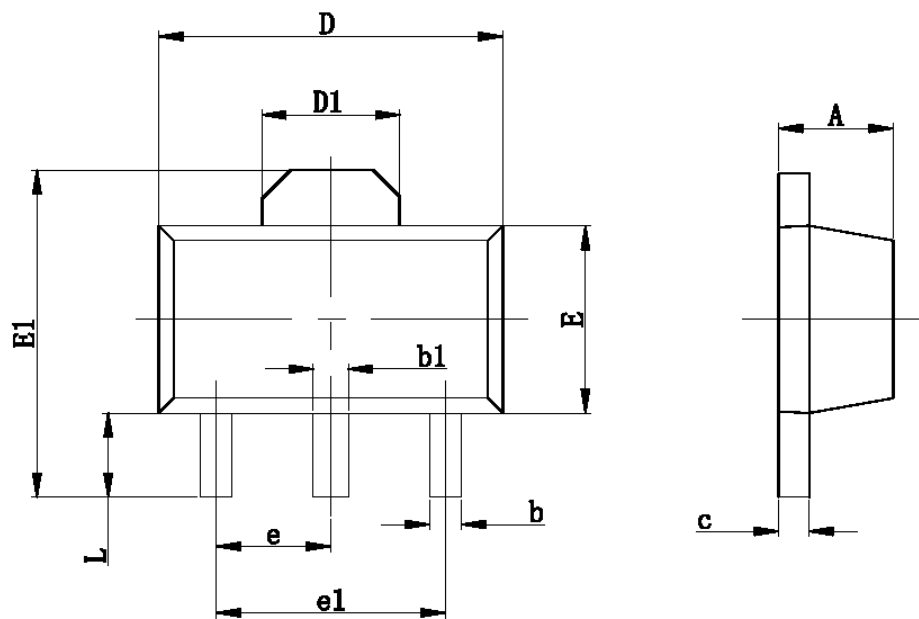
1. Base
2. Collector
3. Emitter

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

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-base breakdown voltage	$V(BR)_{CBO}$	$I_C=-100\mu\text{A}, I_E=0$	-40		V
Collector-emitter breakdown voltage	$V(BR)_{CEO}$	$I_C=-1\text{mA}, I_B=0$	-25		V
Emitter-base breakdown voltage	$V(BR)_{EBO}$	$I_E=-100\mu\text{A}, I_C=0$	-5		V
Collector cut-off current	I_{CBO}	$V_{CB}=-40\text{V}, I_E=0$		-100	nA
Collector cut-off current	I_{CEO}	$V_{CE}=-20\text{V}, I_B=0$		-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$		-100	nA
DC current gain	h_{FE}	$V_{CE}=-1\text{V}, I_C=-0.1\text{mA}$	40		
	h_{FE}	$V_{CE}=-1\text{V}, I_C=-1\text{mA}$	70		
	h_{FE}	$V_{CE}=-1\text{V}, I_C=-100\text{mA}$	200	350	
	h_{FE}	$V_{CE}=-1\text{V}, I_C=-400\text{mA}$	60		
	h_{FE}	$V_{CE}=-1\text{V}, I_C=-800\text{mA}$	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$		-0.5	V
		$I_C=-800\text{mA}, I_B=-80\text{mA}$		-0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$		-1.1	V
		$I_C=-800\text{mA}, I_B=-80\text{mA}$		-1.2	V
Transition frequency	f_T	$V_{CE}=-10\text{V}, I_C=-50\text{mA}, f=30\text{MHz}$	100		MHZ
Output capacitance	C_{OB}	$V_{EB}=-10\text{V}, I_C=0, f=1\text{MHz}$		20	pF

Typical Characteristics



SOT-89-3L Package Information


Symbol	Dimensions in millimeters		Dimensions in inches	
	Min.	Max.	Min.	Max.
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.197
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550REF		0.061REF	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500TYP		0.060TYP	
e1	3.000TYP		0.118TYP	
L	0.900	1.200	0.035	0.047