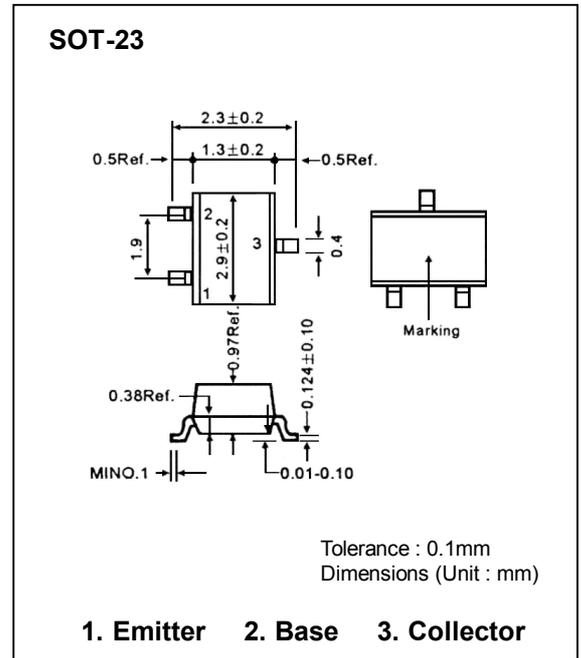


1.25W OUTPUT AMPLIFIER OF PORTABLE RADIO IN CLASS B PUSH-PULL OPERATION

- Collector-Emitter Voltage: $V_{CE0} = -25V$
- Collector Dissipation: $P_C = 625mW$

Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-1500	mA
Collector Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C



Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -100\mu A, I_E = 0$	-40		V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -0.1mA, I_B = 0$	-25		V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -100\mu A, I_C = 0$	-6		V
Collector Cut-off Current	I_{CBO}	$V_{CB} = -40V, I_E = 0$		-0.1	μA
Collector Cut-off Current	I_{CEO}	$V_{CB} = -20V, I_B = 0$		-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0mA$		-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100mA$	120	350	
	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -800mA$	40		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -800mA, I_B = -80mA$		-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -800mA, I_B = -80mA$		-1.2	V
Base-Emitter Voltage	V_{BEF}	$I_E = -1500mA$		-1.6	V
Transition Frequency	f_T	$V_{CE} = -10V, I_C = -50mA$ $f = 30MHz$	100		MHz

$h_{FE(1)}$ CLASSIFICATION

Classification	L	H
$h_{FE(1)}$	120-200	200-350

Device Marking

SS8550LT1=Y2