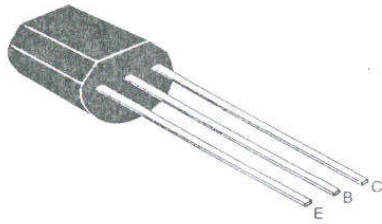


TRANSISTOR 三極管(SOUTH KOREA SEMICONDUCTOR)

SK8550

www.DataSheet4U.com


TO-92

2W OUTPUT AMPLIFIER OF PORTABLE RADIOS IN CLASS B PUSH-PULL OPERATION

- Complimentary to SK8050
- Collector Current: $I_C = -1.5A$
- Collector Dissipation: $P_C = 2W$ ($P_C = 25^\circ C$)

CLASSIFICATION h_{FE} (2)

Classification	B	C	D
h_{FE} (2)	85-160	120-200	160-300

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

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	-1.5	A

Characteristic	Symbol	Rating	Unit
Collector Dissipation	P_C	1	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{stg}	-65~150	$^\circ C$

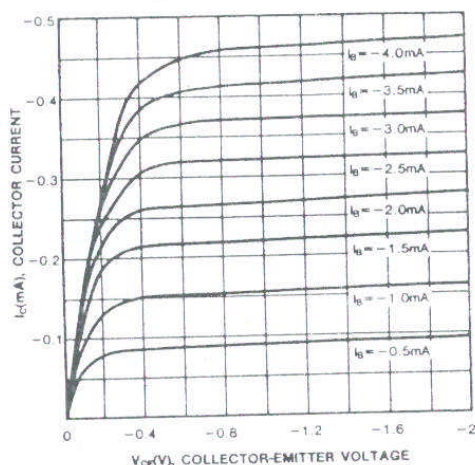
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-40			V	$I_C = -100\mu A$, $I_B = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-25			V	$I_C = -2mA$, $I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-6			V	$I_E = -100\mu A$, $I_C = 0$
Collector Cutoff Current	I_{CBO}			-100	nA	$V_{CB} = -35V$, $I_E = 0$
Emitter Cutoff Current	I_{EBO}			-100	nA	$V_{EB} = -6V$, $I_C = 0$
DC Current Gain	h_{FE1}	45	170			$V_{CE} = -1V$, $I_C = -5mA$
	h_{FE2}	85	160	300		$V_{CE} = -1V$, $I_C = -100mA$
	h_{FE3}	40	80			$V_{CE} = -1V$, $I_C = -800mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.28	-0.5	V	$I_C = -800mA$, $I_B = -80mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.98	-1.2	V	$I_C = -800mA$, $I_B = -80mA$
Base-Emitter Voltage	V_{BE}		-0.66	-1.0	V	$V_{CE} = -1V$, $I_C = -10mA$
Output Capacitance	C_{ob}		15		pF	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$
Current Gain-Bandwidth Product	f_T	100	200		MHz	$V_{CE} = -10V$, $I_C = -50mA$

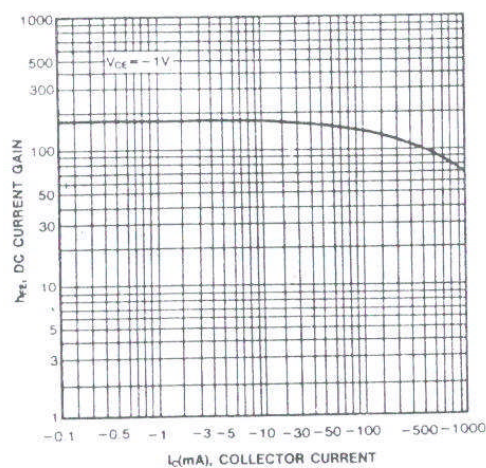
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SK8550

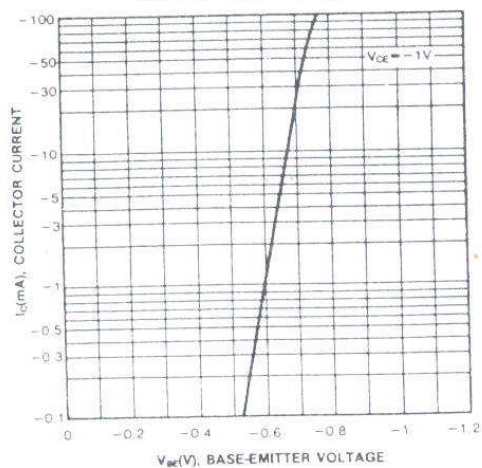
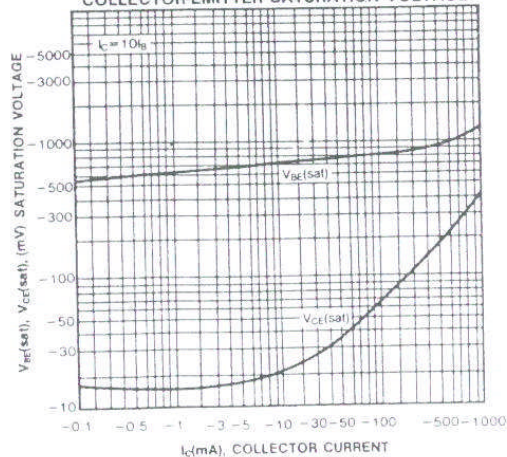
STATIC CHARACTERISTIC



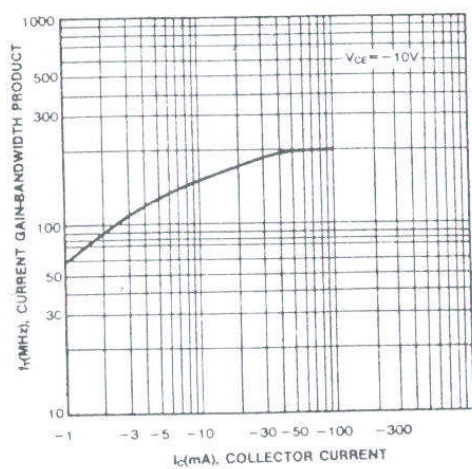
DC CURRENT GAIN



BASE-EMITTER ON VOLTAGE

BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE

CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR OUTPUT CAPACITANCE

