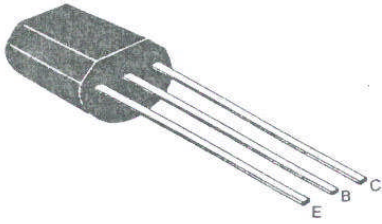


# TRANSISTOR 三極管 (SOUTH KOREA SEMICONDUCTOR)

SK8050

www.DataSheet4U.com



TO-92

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

- Complementary to SK8550
- 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	$V_{CB0}$	40	V
Collector-Emitter Voltage	$V_{CE0}$	25	V
Emitter-Base Voltage	$V_{EB0}$	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 ( $T_a=25^\circ C$ )

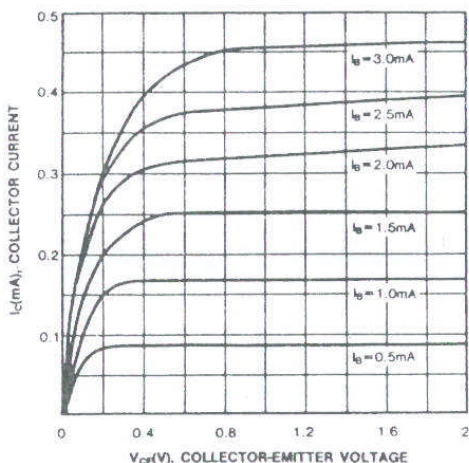
Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	$BV_{CB0}$	40			V	$I_c=100\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	$BV_{CE0}$	25			V	$I_c=2mA, I_B=0$
Emitter-Base Breakdown Voltage	$BV_{EB0}$	6			V	$I_E=100\mu A, I_C=0$
Collector Cutoff Current	$I_{CB0}$			100	nA	$V_{CB}=35V, I_E=0$
Emitter Cutoff Current	$I_{EB0}$			100	nA	$V_{EB}=6V, I_C=0$
DC Current Gain	$h_{FE1}$	45	135			$V_{CE}=1V, I_c=5mA$
	$h_{FE2}$	85	160	300		$V_{CE}=1V, I_c=100mA$
	$h_{FE3}$	40	110			$V_{CE}=1V, I_c=800mA$
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	V	$V_{CE}=1V, I_c=10mA$
Output Capacitance	$C_{ob}$		9.0		pF	$V_{CB}=10V, I_E=0, f=1MHz$
Current Gain-Bandwidth Product	$f_T$	100	190		MHz	$V_{CE}=10V, I_c=50mA$

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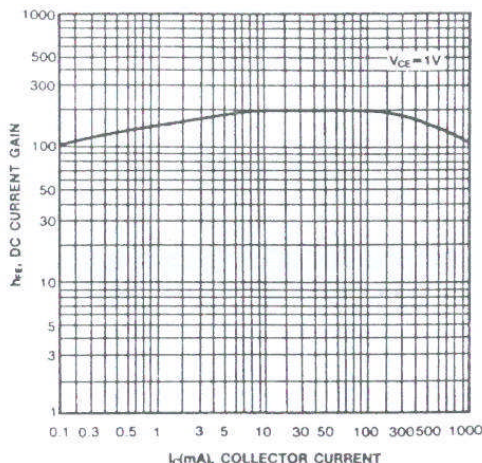
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## SK8050

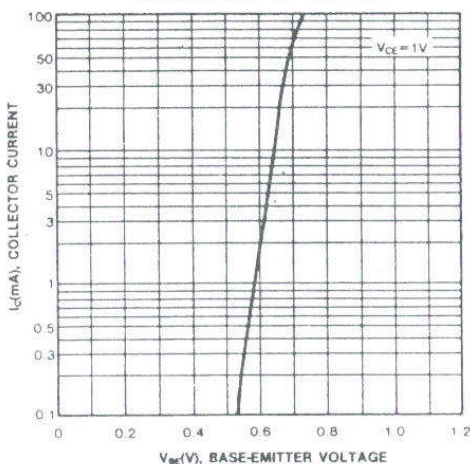
STATIC CHARACTERISTIC



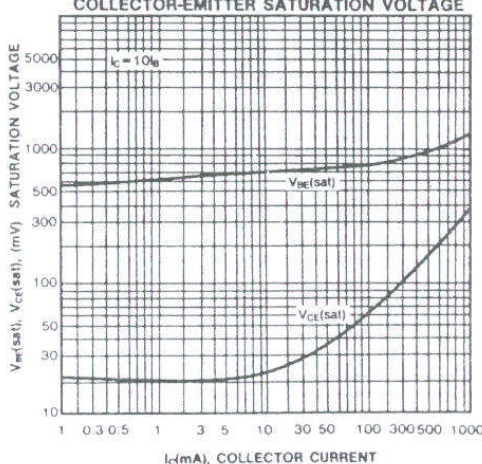
DC CURRENT GAIN



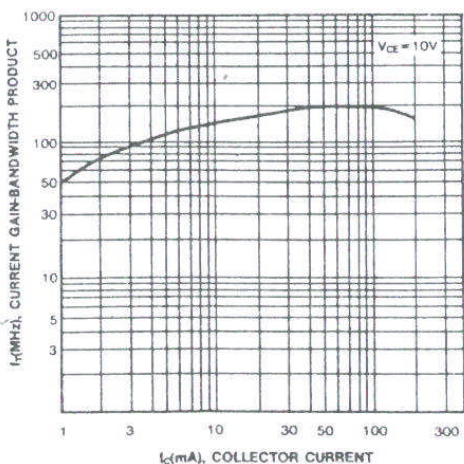
BASE-EMITTER ON VOLTAGE



BASE-EMITTER SATURATION VOLTAGE  
COLLECTOR-EMITTER SATURATION VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR OUTPUT CAPACITANCE

