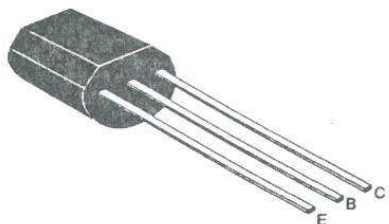


TRANSISTOR 三極管 (SOUTH KOREA SEMICONDUCTOR)

SK9012

www.DataSheet4U.com



TO-92

1W OUTPUT AMPLIFIER OF POTABLE RADIOS IN CLASS B PUSH-PULL OPERATION.

- High total power dissipation. (PT=625mW)
- High Collector Current. ($I_c=-500\text{mA}$)
- Complementary to SK 9013
- Excellent h_{FE} linearity.

CLASSIFICATION h_{FE} (1)

Classification	D	E	F	G	H
h_{FE} (1)	64-91	78-112	96-135	112-166	144-202

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_c	-500	mA
Collector Dissipation	P_c	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$

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

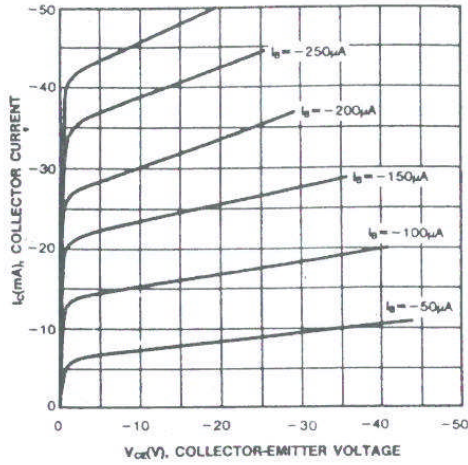
Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-40			V	$I_c=-100\mu\text{A}$, $I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-20			V	$I_c=-1\text{mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E=-100\mu\text{A}$, $I_C=0$
Collector Cutoff Current	I_{CBO}			-100	nA	$V_{CB}=-25\text{V}$, $I_E=0$
Emitter Cutoff Current	I_{EBO}			-100	nA	$V_{EB}=-3\text{V}$, $I_C=0$
DC Current Gain	h_{FE1}	64	120	202		$V_{CE}=-1\text{V}$, $I_c=-50\text{mA}$
	h_{FE2}	40	90			$V_{CE}=-1\text{V}$, $I_c=-500\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$		-0.18	-0.6	V	$I_c=-500\text{mA}$, $I_B=-50\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$		-0.95	-1.2	V	$I_c=-500\text{mA}$, $I_B=-50\text{mA}$
Base-Emitter On Voltage	$V_{BE}(\text{on})$	-0.6	-0.67	-0.7	V	$V_{CE}=-1\text{V}$, $I_c=-10\text{mA}$

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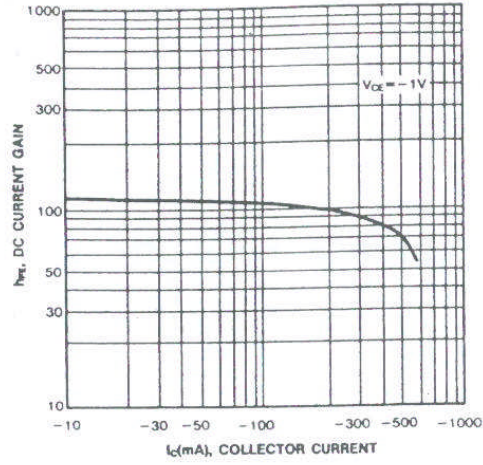
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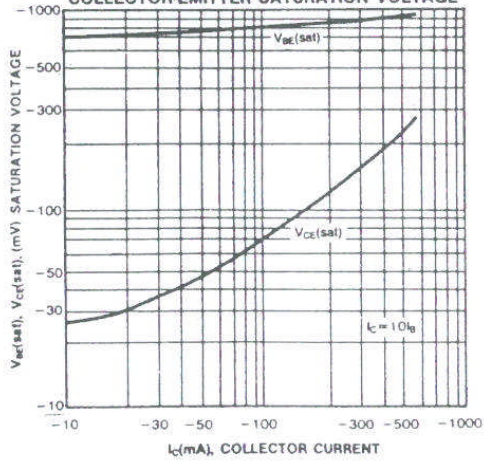
STATIC CHARACTERISTIC



DC CURRENT GAIN



BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT

