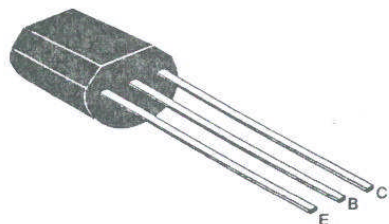


TRANSISTOR 三極管(SOUTH KOREA SEMICONDUCTOR)

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. ($I_C=-500mA$)
- 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 ($T_a=25^\circ C$)

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	$^\circ C$
Storage Temperature	T_{stg}	-55~150	$^\circ C$

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

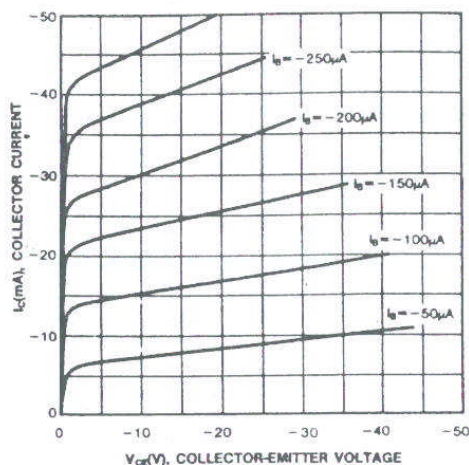
Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-40			V	$I_C=-100\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-20			V	$I_C=-1mA, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E=-100\mu A, I_C=0$
Collector Cutoff Current	I_{CBO}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

TRANSISTOR 三極管(SOUTH KOREA SEMICONDUCTOR)

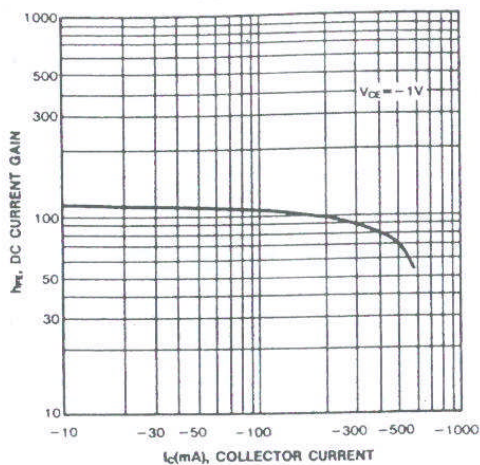
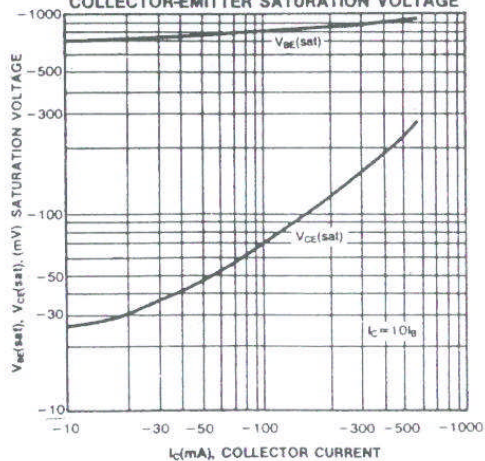
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SK9012

STATIC CHARACTERISTIC



DC CURRENT GAIN

BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE

CURRENT GAIN-BANDWIDTH PRODUCT

