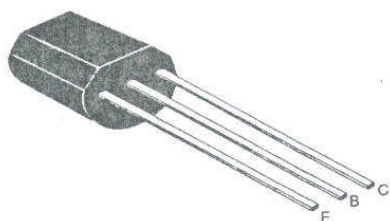


TRANSISTOR 三極管 (SOUTH KOREA SEMICONDUCTOR)

SK9015

www.DataSheet4U.com

**LOW FREQUENCY,
LOW NOISE AMPLIFIER**

- Complimentary to SK9014

TO-92

CLASSIFICATION h_{FE}

Classification	A	B	C
h_{FE}	60-150	100-300	200-600

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA

Characteristic	Symbol	Rating	Unit
Collector Dissipation	P_C	450	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$

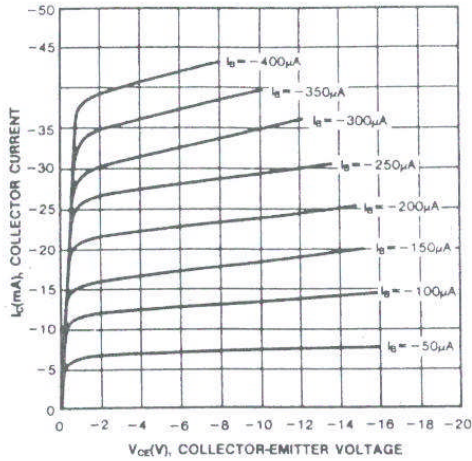
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-50			V	$I_C=-100\mu\text{A}$, $I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-45			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}			-50	nA	$V_{CB}=-50\text{V}$, $I_E=0$
Emitter Cutoff Current	I_{EBO}			-50	nA	$V_{EB}=-5\text{V}$, $I_C=0$
DC Current Gain	h_{FE}	60	200	600		$V_{CE}=-5\text{V}$, $I_C=-1\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$		-0.2	-0.7	V	$I_C=-100\text{mA}$, $I_B=-5\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$		-0.82	-1.0	V	$I_C=-100\text{mA}$, $I_B=-5\text{mA}$
Base-Emitter On Voltage	$V_{BE}(\text{on})$	-0.6	-0.65	-0.75	V	$V_{CE}=-5\text{V}$, $I_C=-2\text{mA}$
Output Capacitance	C_{ob}		4.5	7.0	pF	$V_{CB}=-10\text{V}$, $I_E=0$, $f=1\text{MHz}$
Current Gain-Bandwidth Product	f_T	100	190		MHz	$V_{CE}=-5\text{V}$, $I_C=-10\text{mA}$
Noise Figure	NF		0.7	10	dB	$V_{CE}=-5\text{V}$, $I_C=-0.2\text{mA}$ $f=1\text{KHz}$, $R_S=1\text{K}\Omega$

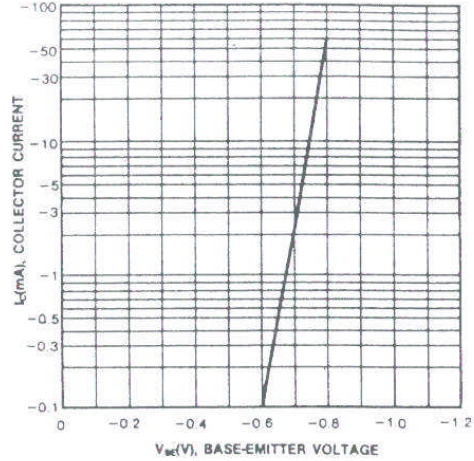
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SK9015

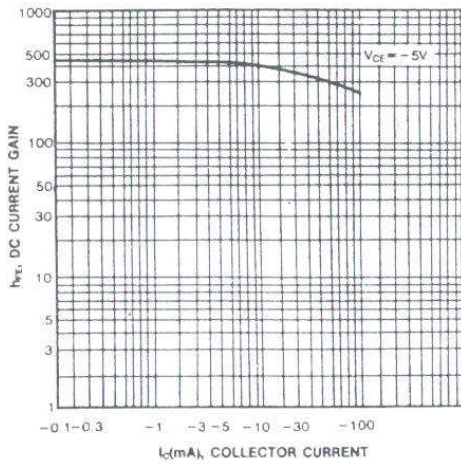
STATIC CHARACTERISTIC



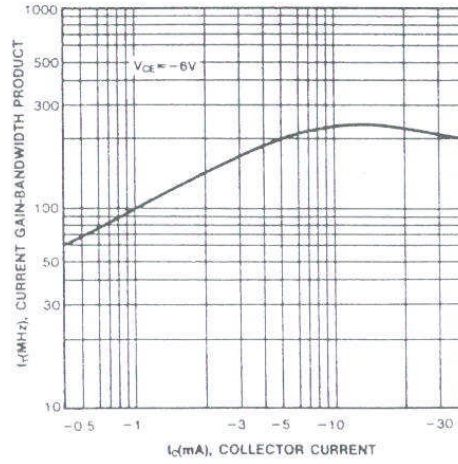
BASE-EMITTER ON VOLTAGE



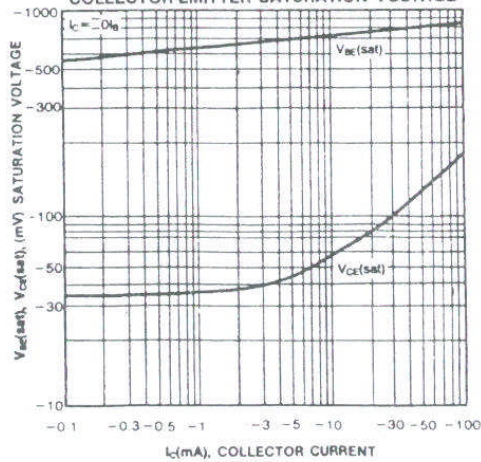
DC CURRENT GAIN



CURRENT GAIN-BANDWIDTH PRODUCT



BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



COLLECTOR OUTPUT CAPACITANCE

