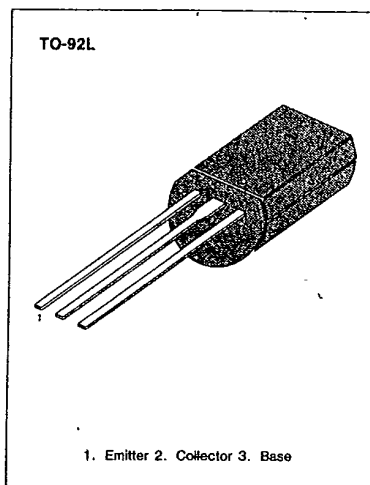


AUDIO POWER AMPLIFIER

- Driver Stage Amplifier
- Complement to KSC2316

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-120	V
Collector-Emitter Voltage	V_{CEO}	-120	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-800	mA
Collector Dissipation	P_C	900	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	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -1\text{mA}, I_E = 0$	-120			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -10\text{mA}, I_B = 0$	-120			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -1\text{mA}, I_C = 0$	-5			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -120\text{V}, I_E = 0$			-0.1	μA
DC Current Gain	h_{FE1}	$V_{CE} = -5\text{V}, I_C = -10\text{mA}$	60			
	h_{FE2}	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$	80		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$			-1	V
Current-Gain Bandwidth Product	f_T	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$		120		MHz
Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0$ $f = 1\text{MHz}$			40	pF

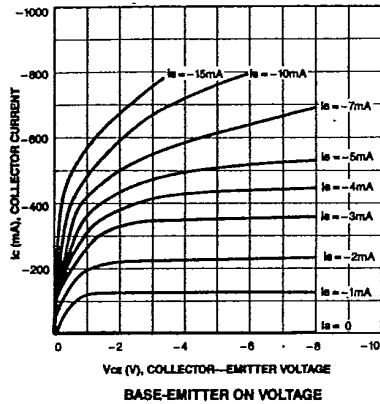
h_{FE} CLASSIFICATION

Classification	O	Y
$h_{FE(2)}$	80-160	120-240

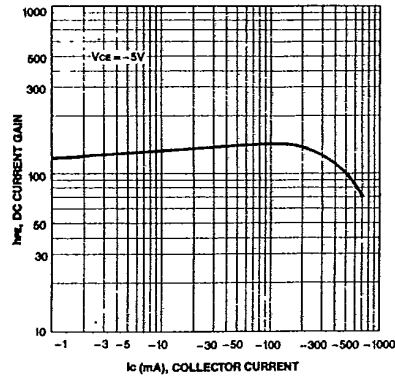
KSA916

PNP EPITAXIAL SILICON TRANSISTOR

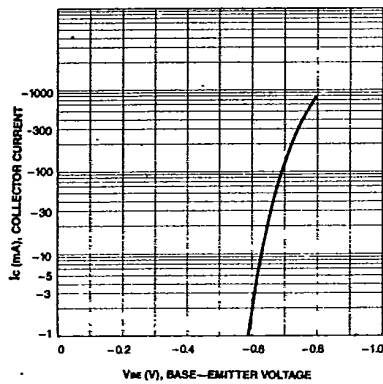
STATIC CHARACTERISTIC



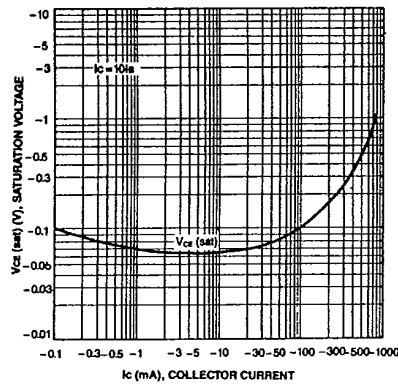
DC CURRENT GAIN



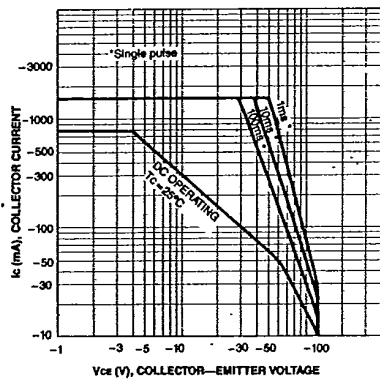
BASE-EMITTER ON VOLTAGE



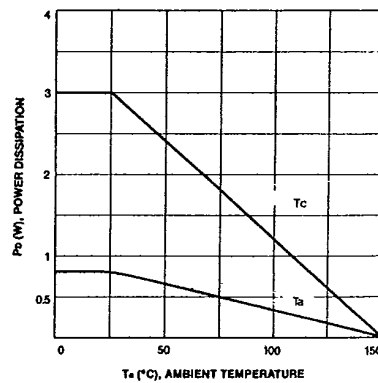
COLLECTOR-EMITTER SATURATION VOLTAGE



SAFE OPERATING AREA



POWER DERATING



3