

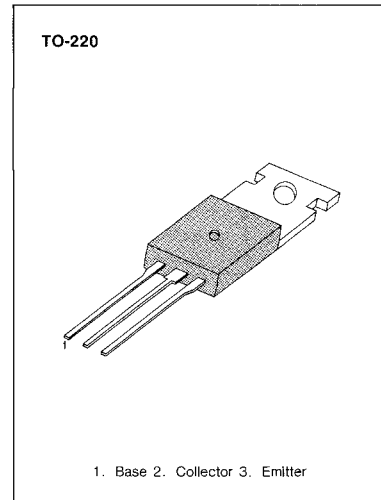
# PNP Transistor KSA473 datasheet

## LOW FREQUENCY POWER AMPLIFIER POWER REGULATOR

- Complement to KSC1173
- Collector Current:  $I_C = -3A$
- Collector Dissipation:  $P_C = 10W$  ( $T_C = 25^\circ C$ )

## ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-30	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-3	A
Collector Dissipation ( $T_C = 25^\circ C$ )	$P_C$	10	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature	$T_{stg}$	-55 ~ +150	$^\circ C$



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

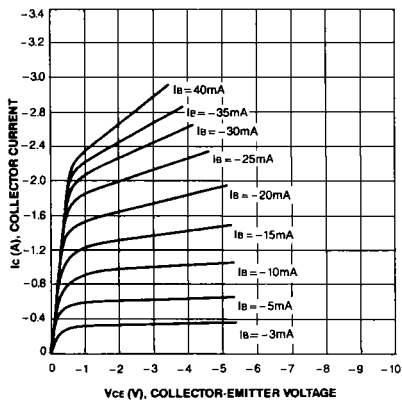
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C = -500\mu A, I_E = 0$	-30			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = -10mA, I_B = 0$	-30			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E = -1mA, I_C = 0$	-5			V
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -20V, I_E = 0$			-1.0	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-1.0	$\mu A$
DC Current Gain	$h_{FE1}$	$V_{CE} = -2V, I_C = -0.5A$	70		240	
	$h_{FE2}$	$V_{CE} = -2V, I_C = -2.5A$	25			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -0.2A$		-0.3	-0.8	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -2V, I_C = -0.5A$		-0.75	-1.0	V
Current Gain Bandwidth Product	$f_T$	$V_{CE} = -2V, I_C = -0.5A$		100		MHz
Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$		40		PF

## $h_{FE}$ CLASSIFICATION

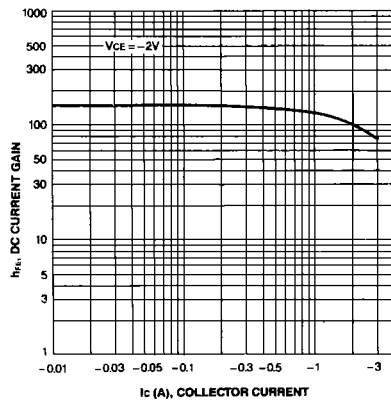
Classification	O	Y
$h_{FE}(1)$	70-140	120-240

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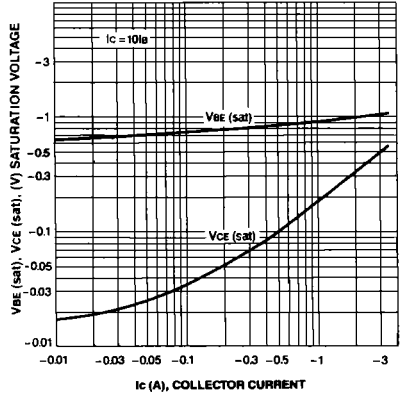
**STATIC CHARACTERISTIC**



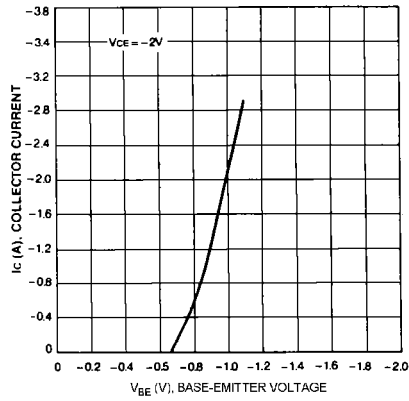
**DC CURRENT GAIN**



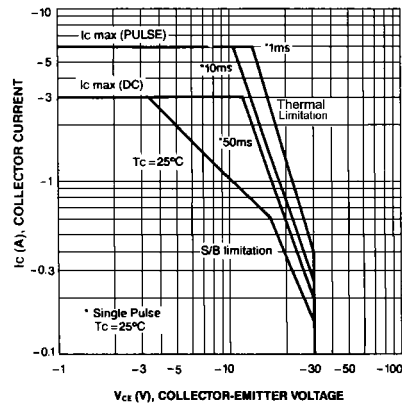
**BASE-EMITTER SATURATION VOLTAGE  
COLLECTOR-EMITTER SATURATION VOLTAGE**



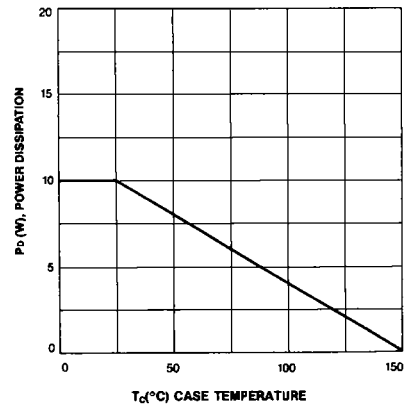
**BASE-EMITTER ON VOLTAGE**



**SAFE OPERATING AREA**



**POWER DERTING**



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