

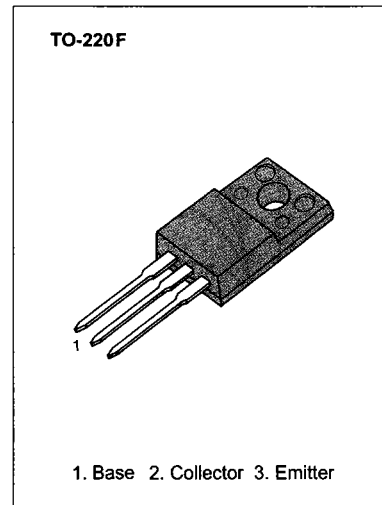
# PNP Transistor KSB1023 datasheet

## POWER AMPLIFIER APPLICATIONS

- High DC Current Gain
- Low Collector Emitter Saturation Voltage
- Complement to KSD1413

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	$V_{CBO}$	-60	V
Collector Emitter Voltage	$V_{CEO}$	-40	V
Emitter Base Voltage	$V_{EBO}$	-5	V
Collector Current (DC)	$I_C$	-3	A
Collector Current (Pulse)	$I_C$	-6	A
Base Current	$I_B$	-0.3	A
Collector Dissipation (Ta=25°C)	$P_C$	2	W
Collector Dissipation (Tc=25°C)	$P_C$	20	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C



## ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = -25mA, I_B = 0$	-40			V
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = -60V, I_E = 0$			-20	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-2.5	mA
DC Current Gain	$h_{FE1}$	$V_{CE} = -2V, I_C = -1A$	2000			
	$h_{FE2}$	$V_{CE} = -2V, I_C = -3A$	1000			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -4mA$			-1.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -2A, I_B = -4mA$			-2	V
Turn On Time	$t_{on}$	$-I_{B1} = I_{B2} = 6mA$		0.3		$\mu S$
Storage Time	$t_{stg}$	$V_{CC} = -30V$		0.6		$\mu S$
Fall Time	$t_f$			0.25		$\mu S$

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