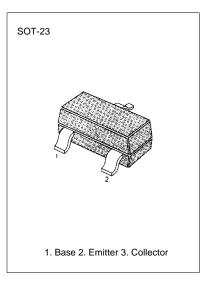
GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Storage Temperature	V _{CBO} V _{CEO} V _{EBO} I _C P _C T _{STG}	-45 -45 -5 -100 350 150	V V V mA mW

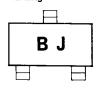
Refer to KS5086 for graphs



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage Collector Cut-off Current DC Current Gain	BV _{CEO} BV _{EBO} I _{CES} h _{FE}	$\begin{split} I_{C} = -2mA, \ I_{B} = 0 \\ I_{E} = -1\mu A, \ I_{C} = 0 \\ V_{CE} = -32V, \ V_{BE} = 0 \\ V_{CE} = -5V, \ I_{C} = -10\mu A \\ V_{CE} = -5V, \ I_{C} = -2mA \\ V_{CE} = -1V, \ I_{C} = -50mA \end{split}$	-45 -5 40 250	-20 460	V V nA
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I_{C} = -10mA, I_{B} = -0.25mA I_{C} = -50mA, I_{B} = -1.25mA	100	-0.25 -0.55	V V
Base-Emitter Saturation Voltage	V _{BE} (sat)	I_{C} = -10mA, I_{B} = -0.25mA I_{C} = -50mA, I_{B} = -1.25mA	-0.6 -0.68	-0.85 -1.05	V
Base-Emitter On Voltage Current Gain Bandwidth Product	V _{DE} (on) C _{OB}	$I_{C}= -2mA, V_{CE}= -5V$ $V_{CB}= -10V, I_{E}=0$ $f=1MHz$	-0.6	-0.75 6	V V pF
Noise Figure	NF	I_C = -0.2mA, V_{CE} = -5V f=1KHz, R_S =2K Ω		6	dB
Turn On Time Turn Off Time	T _{ON} T _{OFF}	I_{C} = -10mA, I_{B1} = -1mA I_{B2} = -1mA, V_{BB} = -3.6V R_{L} =990 Ω		150 800	ns ns

Marking





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