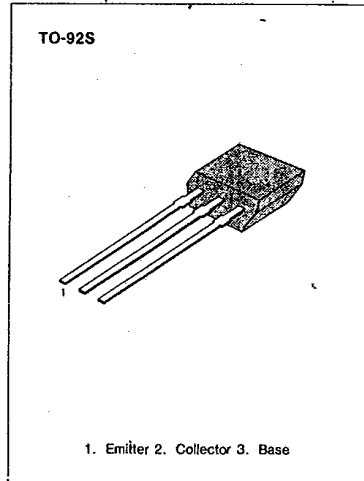


KSR2210 PNP EPITAXIAL SILICON TRANSISTOR

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SWITCHING APPLICATION (Bias Resistor Built in)

- Switching Circuit, Inverter, Interface circuit
Driver circuit
- Built in bias Resistor (R=10KΩ)
- Complement to KSR1210



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

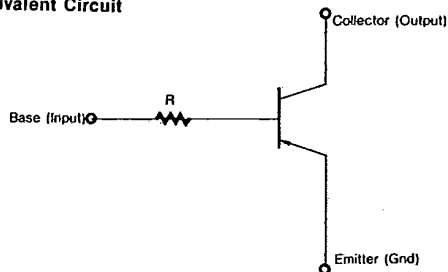
Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	-40	V
Collector-Emitter Voltage	V_{CE0}	-40	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_c	-100	mA
Collector Dissipation	P_c	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$

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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CB0}	$I_c = -100\mu\text{A}, I_E = 0$	-40			V
Collector-Emitter Breakdown Voltage	BV_{CE0}	$I_E = -1\text{mA}, I_B = 0$	-40			V
Collector Cutoff Current	I_{CB0}	$V_{CB} = -30\text{V}, I_E = 0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -5\text{V}, I_c = -1\text{mA}$	100		600	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c = -10\text{mA}, I_B = -1\text{mA}$			0.3	V
Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0$ $f = 1\text{MHz}$		5.5		pF
Current Gain-Bandwidth Product	f_T	$V_{CE} = -10\text{V}, I_c = -5\text{mA}$		200		MHz
Input Resistor	R		7	10	13	KΩ

Equivalent Circuit



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