

SAMSUNG SEMICONDUCTOR INC

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KSR2111

PNP EPITAXIAL SILICON TRANSISTOR

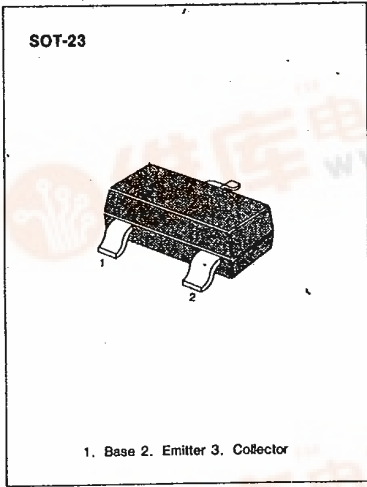
T-37-13

SWITCHING APPLICATION (Bias Resistor Built In)

- Switching Circuit, Inverter, Interface circuit Driver circuit
- Built in bias Resistor (R=22KΩ)
- Complement to KSR1111

ABSOLUTE MAXIMUM RATINGS (T_a = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-100	mA
Collector Dissipation	P _C	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 ~ 150	°C

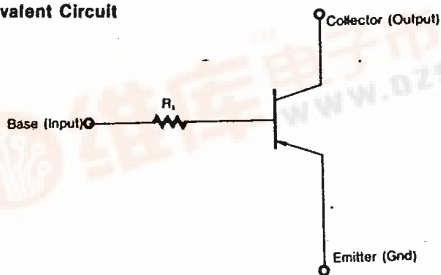


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ELECTRICAL CHARACTERISTICS (T_a = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV _{CB0}	I _C = -100μA, I _E = 0	-40			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _E = -1mA, I _B = 0	-40			V
Collector Cutoff Current	I _{CB0}	V _{CB} = -30V, I _E = 0			-0.1	μA
DC Current Gain	h _{FE}	V _{CE} = -5V, I _C = -1mA	100		600	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -10mA, I _B = -1mA			-0.3	V
Output Capacitance	C _{ob}	V _{CB} = -10V, I _E = 0 f = 1MHz		5.5		pF
Current Gain-Bandwidth Product	f _T	V _{CE} = -10V, I _C = -5mA	15	200		MHz
Input Resistor	R			22	29	KΩ

Equivalent Circuit



Marking

