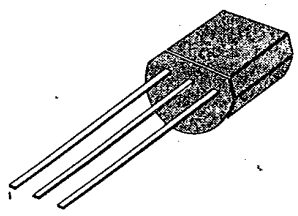
KSR2012 PNP EPITAXIAL SILICON TRANSISTOR

T-37-13

SWITCHING APPLICATION (Bias Resistor Built In)

- Switching Circuit, Inverter, Interface circuit Driver circuit
- Built In bias Resistor (R=47KΩ)
- Complement to KSR1012

TO-92



1. Emitter 2. Collector 3. Base

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	−40	V
Collector-Emitter Voltage	V_{CEO}	−40	V
Emitter-Base Voltage	V_{EBO}	−5	V
Collector Current	I_C	−100	mA
Collector Dissipation	P_C	300	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	−55~150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	I_C=−100μA, I_E=0	−40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=−1mA, I_B=0	−40			V
Collector Cutoff Current	I_{CBO}	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	Cob	V_{CB}=−10V, I_E=0 f=1MHz		5.5		pF
Current Gain Bandwidth Product	f_T	V_{CE}=−10V, I_C=−5mA,		200		MHz
Input Resistor	R		32	47	62	KΩ

Equivalent Circuit