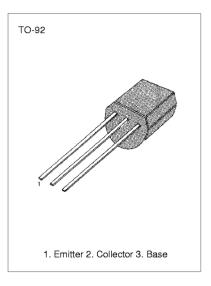
SWITCHING APPLICATION (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit Built in bias Resistor (R₁=2.2K Ω , R₂=47K Ω)
- Complement to KSR2013

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

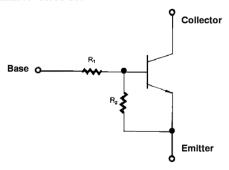
Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V _{CBO} V _{CEO} V _{EBO} I _C P _C T _J T _{STG}	50 50 10 100 300 150 -55 ~ 150	∨ ∨ ∨ m M



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Collector Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Current Gain-Bandwidth Product Output Capacitance Input Off Voltage Input On Voltage Input Resistor Resistor Ratio	BVcBo BVcEo IcBo hFE VcE(sat) fT CoB VI(off) VI(on) R1 R1/R2	$\begin{array}{l} l_{C}{=}10\mu\text{A},\ l_{E}{=}0\\ l_{C}{=}100\mu\text{A},\ l_{B}{=}0\\ V_{CB}{=}40V,\ l_{E}{=}0\\ V_{CE}{=}5V,\ l_{C}{=}5\text{mA}\\ l_{C}{=}10\text{mA},\ l_{B}{=}0.5\text{mA}\\ V_{CE}{=}5\text{mA},\ l_{C}{=}10V\\ V_{CB}{=}10V,\ l_{E}{=}0\\ f{=}1.0\text{MHz}\\ V_{CE}{=}5V,\ l_{C}{=}100\mu\text{A}\\ V_{CE}{=}0.2V,\ l_{C}{=}5\text{mA} \end{array}$	50 50 68 0.5 1.5 0.042	250 3.7 2.2 0.047	0.1 0.3 1.1 2.9 0.052	V V μΑ V MHz pF V V KΩ

EQUIVALENT CIRCUIT





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FACTTM QSTM

FACT Quiet Series $^{\text{TM}}$ Quiet Series $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -3 FAST $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -6 GTO $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -8 HiSeC $^{\text{TM}}$

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PRODUCT STATUS DEFINITIONS

Definition of Terms

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