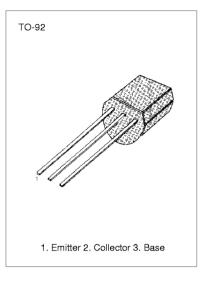
SWITCHING APPLICATION (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=22KΩ, R₂=22KΩ)
 Complement to KSR2003

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

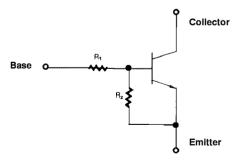
Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V _{CBO} V _{CEO} V _{EBO} I _C P _C T _J T _{STG}	50 50 10 100 300 150 -55 ~ 150	>>>



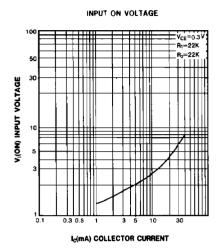
ELECTRICAL CHARACTERISTICS (T_A=25°C)

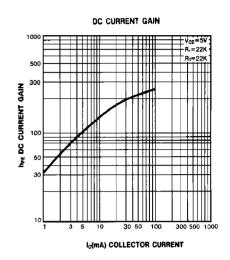
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Collector Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Current Gain-Bandwidth Product Output Capacitance	BVcBo BVcEo lcBo hFE VcE(sat) fT CoB	$\begin{array}{l} l_{C}\!\!=\!\!10\mu\text{A}, l_{E}\!\!=\!\!0 \\ l_{C}\!\!=\!\!100\mu\text{A}, l_{B}\!\!=\!\!0 \\ V_{CB}\!\!=\!\!40\text{V}, l_{E}\!\!=\!\!0 \\ V_{CE}\!\!=\!\!5\text{V}, l_{C}\!\!=\!\!5\text{mA} \\ l_{C}\!\!=\!\!10\text{mA}, l_{B}\!\!=\!\!0.5\text{mA} \\ V_{CE}\!\!=\!\!5\text{mA}, l_{C}\!\!=\!\!10\text{V} \\ V_{CB}\!\!=\!\!5\text{mA}, l_{C}\!\!=\!\!10\text{V} \\ V_{CB}\!\!=\!\!10\text{V}, l_{E}\!\!=\!\!0 \\ [\!\!=\!\!1.0\text{MHz}\!\!] \end{array}$	50 50 56	250 3.7	0.1	V V μA V MHz pF
Input Off Voltage Input On Voltage Input Resistor Resistor Ratio	$V_{I}(off)$ $V_{I}(on)$ R_{1} R_{1}/R_{2}	$V_{CE}=5V$, $I_{C}=100\mu A$ $V_{CE}=0.3V$, $I_{C}=5mA$	0.5 15 0.9	22 1	3.0 29 1.1	V V KΩ

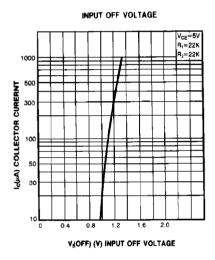
EQUIVALENT CIRCUIT

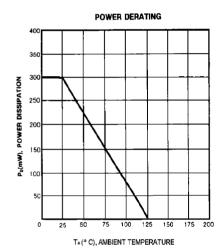












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