

General Purpose Application

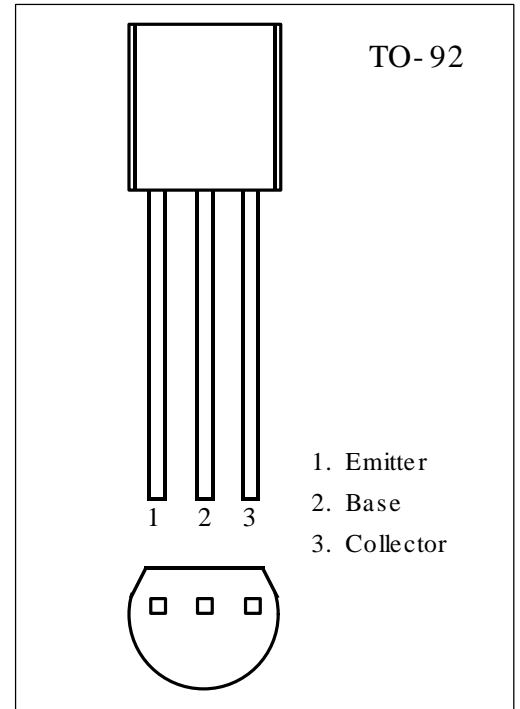
Switching Application

- ◇ Collector Current $I_c = -100\text{mA}$
- ◇ Collector Power Dissipation $P_c = 450\text{mW}$
- ◇ Complementary to S9014

ABSOLUTE MAXIMUM RATINGS

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

Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V_{CB0}	-50	V
Collector-Emitter Voltage	V_{CE0}	-45	V
Emitter-Base voltage	V_{EB0}	-5	V
Collector Current	I_C	-100	mA
Collector Power Dissipation	P_C	450	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS

($T_a = 25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV_{CB0}	$I_C = -100\mu\text{A}$	-50			V
Collector-emitter breakdown voltage	BV_{CE0}	$I_C = -1\text{mA}$	-45			V
Emitter-base breakdown voltage	BV_{EB0}	$I_E = -100\mu\text{A}$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -50\text{V}$			-50	nA
DC current gain	h_{FE}	$I_C = -1\text{mA}$ $V_{CE} = -5\text{V}$	60		600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100\text{mA}$ $I_B = -5\text{mA}$			-0.7	V

* h_{FE} Classification: A:60~150, B:100~300, C:200~600, D:400~1,000