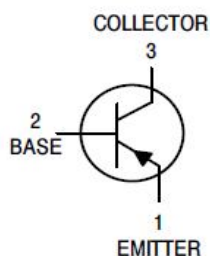


TO-92

Features

- Pb Free
- Major application : amplifying 、 switching


Mechanical Data

- Case : TO-92, Molded plastic
- Terminal: Pure tin plated, lead free

Primary Characteristics

BV_{CBO}	300V
BV_{CEO}	300V
BV_{EBO}	5V
I_C	500mA
P_C	625mW
T_J	-50 ~ +150 °C
T_{STG}	-50 ~ +150 °C

Maximum Rating (Ta=25°C unless otherwise noted)

Parameter	Symbol	Testing Condition		Value	Unit
Collector -Base Breakdown Voltage	BV_{CBO}	$I_C=0.1mA$	$I_E=0$	≥ 300	V
Collector -Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA$	$I_B=0$	≥ 300	V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=0.1mA$	$I_C=0$	≥ 5	V
Collector Cutoff Current	I_{CBO}	$V_{CB}=200V$	$I_E=0$	≤ 100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V$	$I_C=0$	≤ 100	nA
Collector -Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA$	$I_B=2mA$	≤ 0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA$	$I_B=2mA$	≤ 0.9	V
DC Current Gain	h_{FE}	$V_{CE}=10V$	$I_C=10mA$	≥ 40	-
Current-Gain - Bandwidth Product	f_T	$V_{CE}=20V$	$I_C=10mA$	≥ 50	MHz

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