



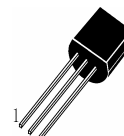
APPLICATIONS

DC-DC Convertor

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg}	Storage Temperature.....	-55~150
T_j	Junction Temperature.....	150
P_C	Collector Dissipation.....	750mW
V_{CBO}	Collector-Base Voltage.....	-20V
V_{CEO}	Collector-Emitter Voltage.....	-20V
V_{EBO}	Emitter-Base Voltage.....	-6V
I_C	Collector Current.....	-3 A
I_B	Base Current.....	-200mA

TO-92



1—Emitter , E
2—Collector ,C
3—Base , B

ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	-20			V	$I_C=-50\mu A$, $I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	-20			V	$I_C=-1mA$, $I_B=0$
BV_{EBO}	Emitter-Base Breakdown Voltage	-6			V	$I_E=-10\mu A$, $I_C=0$
I_{CBO}	Collector Cut-off Current			-0.1	μA	$V_{CB}=-20V$, $I_E=0$
I_{EBO}	Emitter Cut-off Current			-0.1	μA	$V_{EB}=-5V$, $I_C=0$
h_{FE}	DC Current Gain	82		390		$V_{CE}=-2V$, $I_C=-100mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			-0.5	V	$I_C=-2A$, $I_B=-100mA$
f_T	Current Gain-Bandwidth Product		240		MHz	$V_{CE}=-2V$, $I_C=-500mA$, $f=100MHz$
C_{ob}	Output Capacitance		35		pF	$V_{CB}=-10V$, $I_E=0$, $f=1MHz$

h_{FE} Classification

P

Q

R

82—180

120—270

180—390