

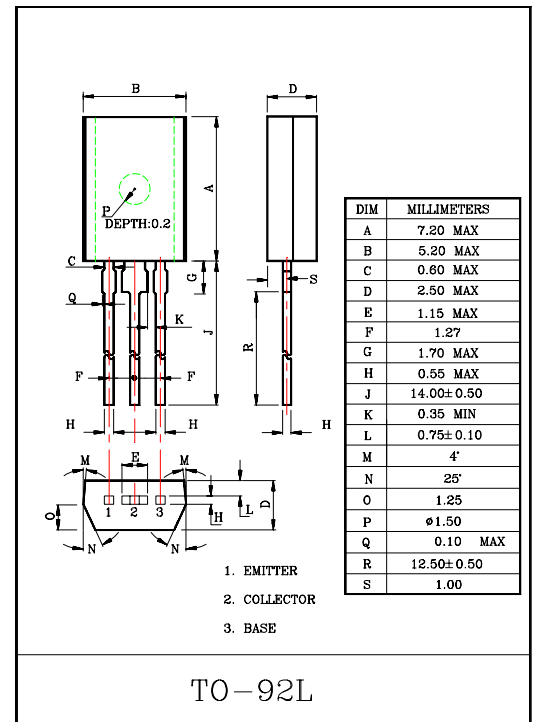
HIGH VOLTAGE APPLICATION.  
DC-DC CONVERTER.  
LOW POWER SWITCHING REGULATOR.

### FEATURES

- High Breakdown Voltage.
- Low Collector Saturation Voltage.
- High Speed Switching.

### MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-400	V
Collector-Emitter Voltage	V <sub>CE0</sub>	-400	V
Emitter-Base Voltage	V <sub>EB0</sub>	-7	V
Collector Current	I <sub>C</sub>	-0.5	A
Collector Power Dissipation	P <sub>C</sub>	1	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~150	°C

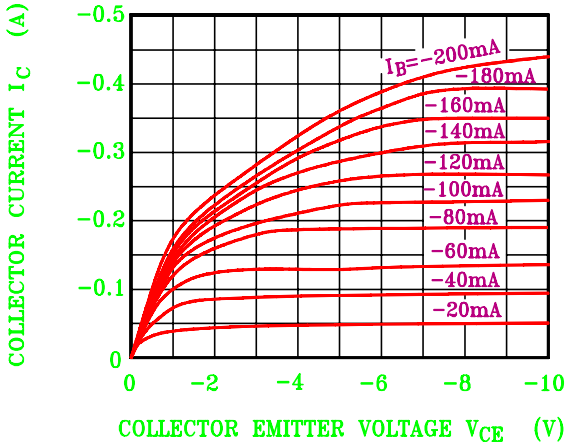


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

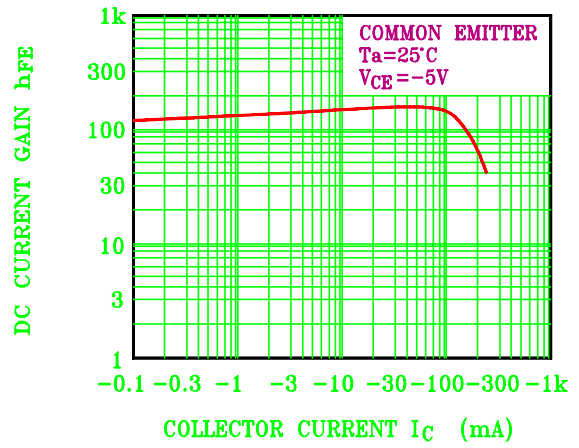
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> =-400V	-	-	-10	μA
Emitter Cutoff Current	I <sub>EB0</sub>	V <sub>EB</sub> =-5V	-	-	-10	
Collector Base Voltage	V <sub>CB0</sub>	I <sub>C</sub> =-100μA	-400	-	-	V
Collector Emitter Voltage	V <sub>CE0</sub>	I <sub>C</sub> =-1mA	-400	-	-	
DC Current Gain	h <sub>FE</sub> (Note)	V <sub>CE</sub> =-5V, I <sub>C</sub> =-100mA	60	-	200	-
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA	-	-	-1	V
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA	-	-	-1.2	
Switching Time	Turn On Time	t <sub>ON</sub>	-	-	1	μS
	Storage Time	t <sub>stg</sub>	-	-	4	
	Fall Time	t <sub>f</sub>	-	-	1	

Note : h<sub>FE</sub> Classification O:60~120 , Y:100~200

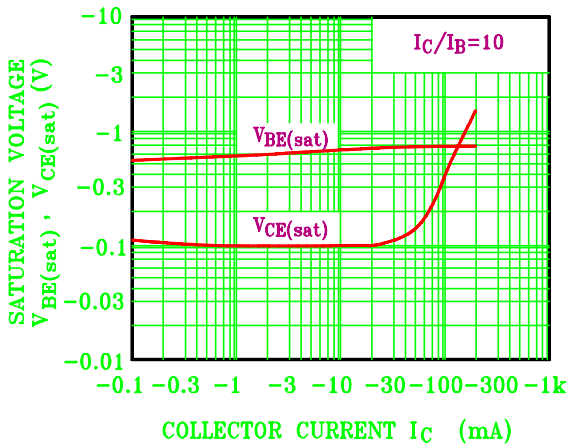
$I_C - V_{CE}$



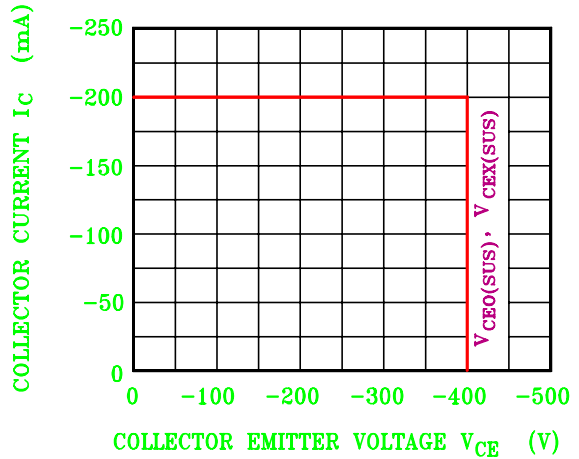
$h_{FE} - I_C$



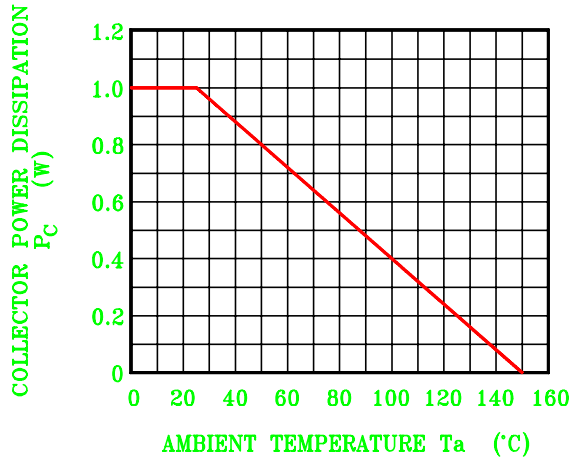
$V_{BE(sat)}, V_{CE(sat)} - I_C$



REVERSE BIAS SAFE OPERATING AREA



$P_C - T_a$



SAFE OPERATING AREA

