

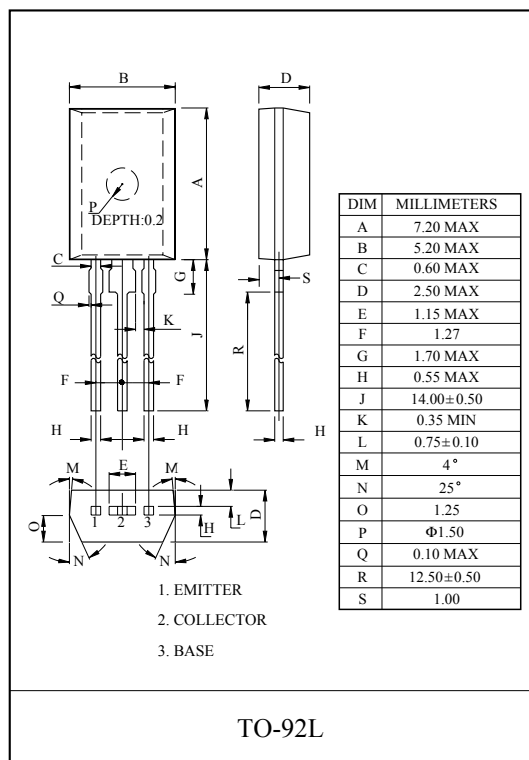
HIGH VOLTAGE APPLICATION.
DC-DC CONVERTER.
LOW POWER SWITCHING REGULATOR.

FEATURES

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

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-400	V
Collector-Emitter Voltage	V_{CEO}	-400	V
Emitter-Base Voltage	V_{EBO}	-7	V
Collector Current	I_C	-0.5	A
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C

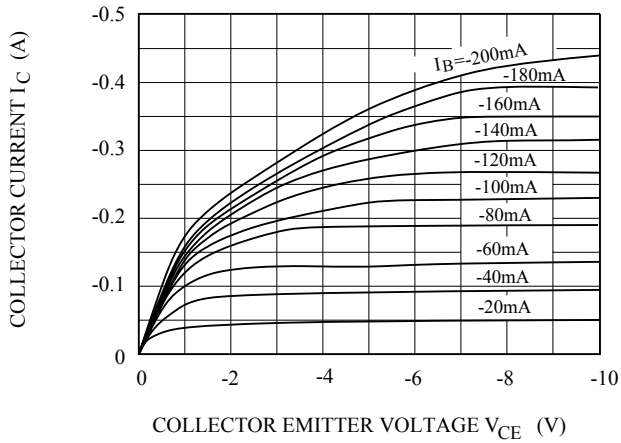


ELECTRICAL CHARACTERISTICS (Ta=25°C)

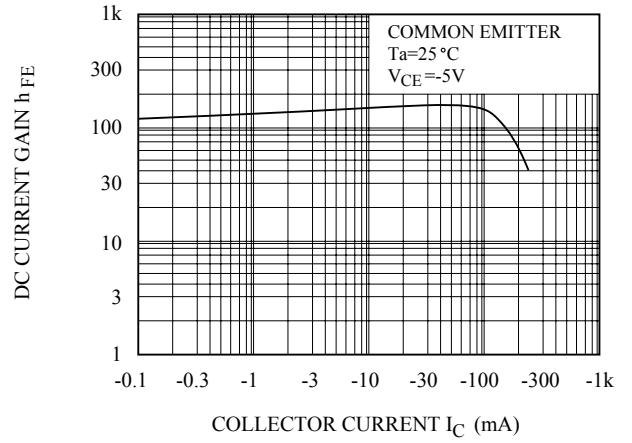
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current		I_{CBO}	$V_{CB}=-400V$	-	-	-10	μA
Emitter Cutoff Current		I_{EBO}	$V_{EB}=-5V$	-	-	-10	
Collector Base Voltage		$V_{(BR)CBO}$	$I_C=-100\mu A$	-400	-	-	V
Collector Emitter Voltage		$V_{(BR)CEO}$	$I_C=-1mA$	-400	-	-	
DC Current Gain		h_{FE} (Note)	$V_{CE}=-5V, I_C=-100mA$	60	-	200	-
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=-100mA, I_B=-10mA$	-	-	-1	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=-100mA, I_B=-10mA$	-	-	-1.2	
Switching Time	Turn On Time	t_{on}	$I_C=-100mA, R_L=1.5k\Omega$	-	-	1	μS
	Storage Time	t_{stg}	$I_{B1}=-10mA, I_{B2}=20mA$	-	-	4	
	Fall Time	t_f	$V_{CC}=-150V$	-	-	1	

Note : h_{FE} Classification O:60~120, Y:100~200

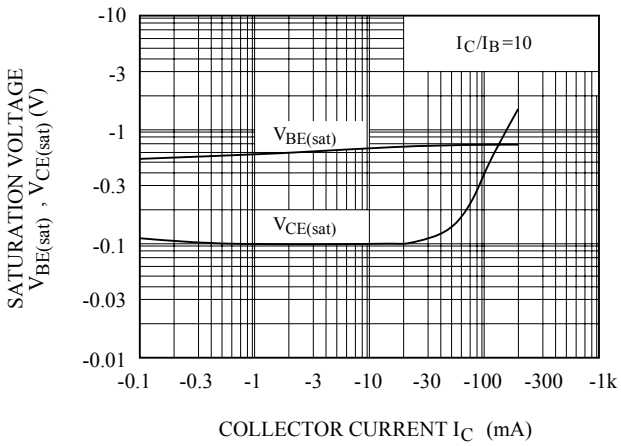
$I_C - V_{CE}$



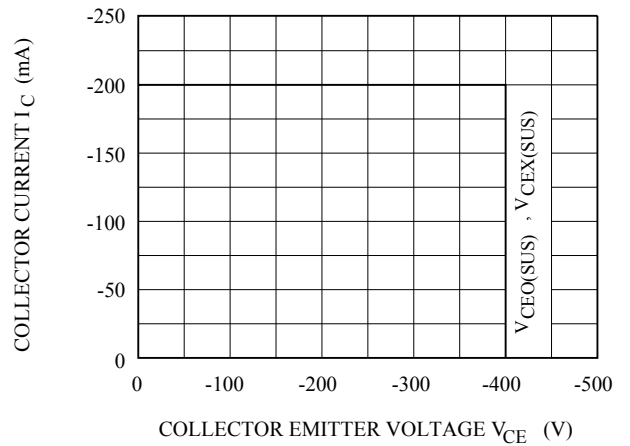
$h_{FE} - I_C$



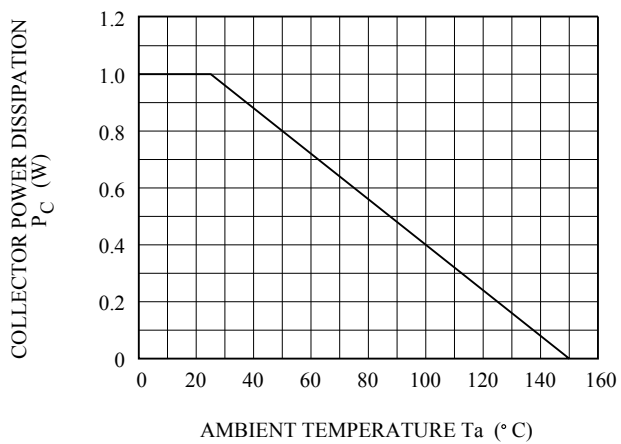
$V_{BE(sat)}, V_{CE(sat)} - I_C$



REVERSE BIAS SAFE OPERATING AREA



$P_c - T_a$



SAFE OPERATING AREA

