

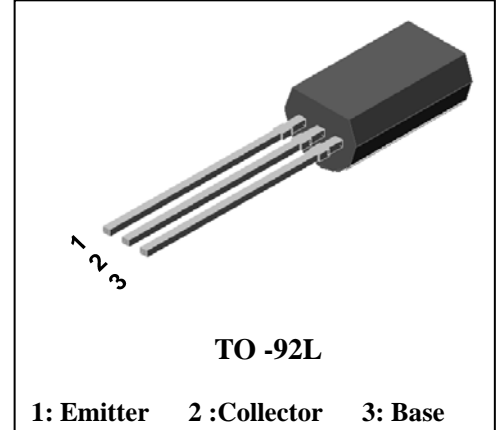
Descriptions

- High voltage application
- Color TV horizontal driver application
- Color TV chroma output application

Features

- Collector-Emitter voltage $V_{CEO} = 300V$

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
STC345L	STC345L	TO-92L

Absolute maximum ratings

($T_a = 25^\circ C$)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	300	V
Collector-Emitter voltage	V_{CEO}	300	V
Emitter-Base voltage	V_{EBO}	7	V
Collector current	I_C	100	mA
Base Current	I_B	20	mA
Collector dissipation	P_C	1	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 ~ 150	$^\circ C$

Electrical Characteristics**(Ta=25°C)**

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector cut-off current	I_{CBO}	$V_{CB}=240V, I_E=0$	-	-	1.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	1.0	μA
DC current gain	$h_{FE}(1)$	$V_{CE}=10V, I_C=0.5mA$	20	-	-	
	$h_{FE}(2)$	$V_{CE}=10V, I_C=20mA$	30	-	200	
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	-	-	1.0	V
Transition frequency	f_T	$V_{CE}=10V, I_C=20mA$	50	-	-	MHz
Collector output capacitance	C_{ob}	$V_{CB}=20V, I_E=0, f=1MHz$	-	3.0	-	pF

Electrical Characteristic Curves

Fig. 1 $h_{FE} - I_C$

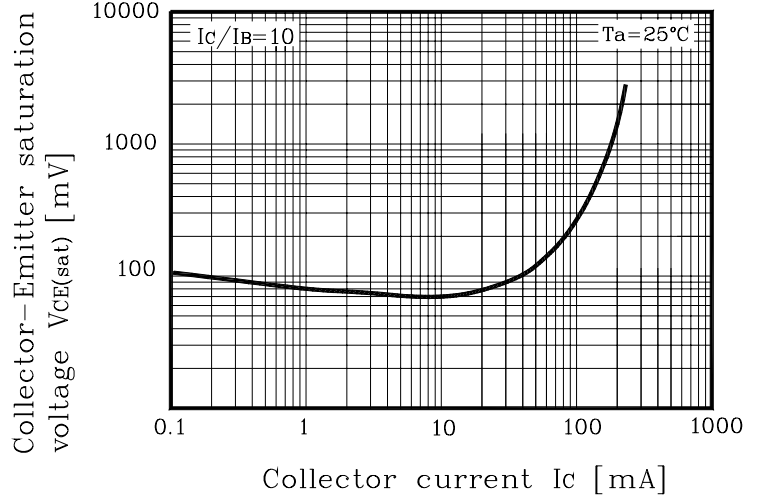
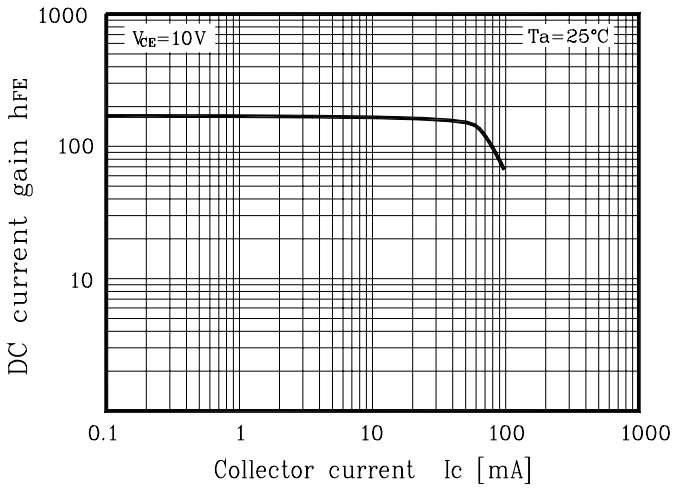


Fig. 3 $f_T - I_C$

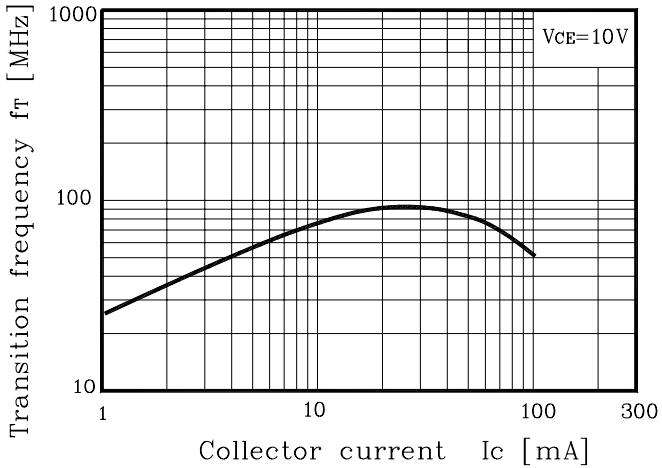


Fig. 4 $C_{ob} - V_R$

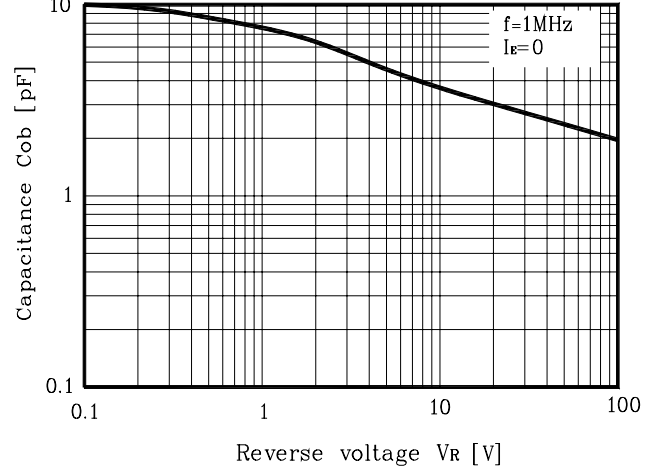
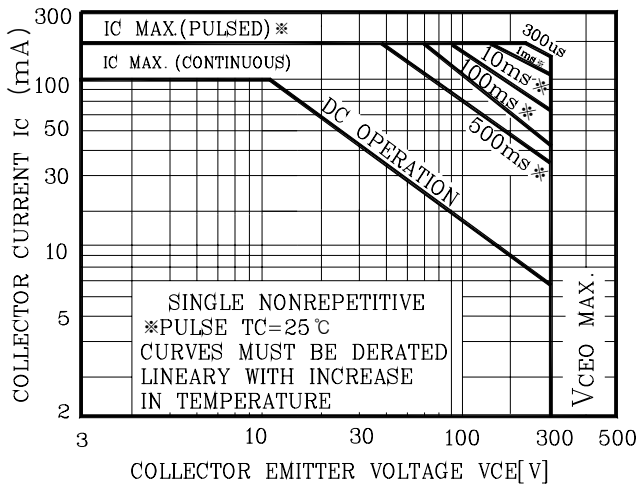
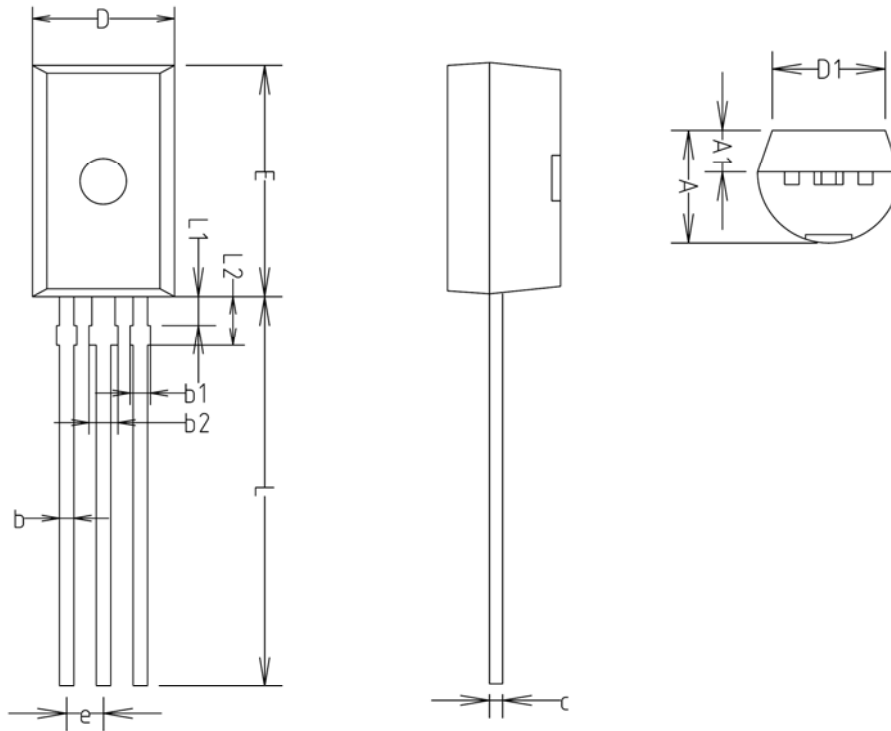


Fig. 5 Safe operating Area



Outline Dimension



SYMBOL	MILLIMETERS(mm)			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	3.70	3.90	4.10	
A1	1.25	1.45	1.65	
b	0.40	0.50	0.60	
b1	—	—	0.70	
b2	—	—	1.00	
c	0.35	0.45	0.55	
D	4.70	4.90	5.10	
D1	3.70	3.90	4.10	
E	7.80	8.00	8.20	
e	1.27 TYP			
L	13.10	13.50	13.90	
L1	0.90	1.00	1.10	
L2	1.50	1.70	1.90	

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