



# 2SC4710LS

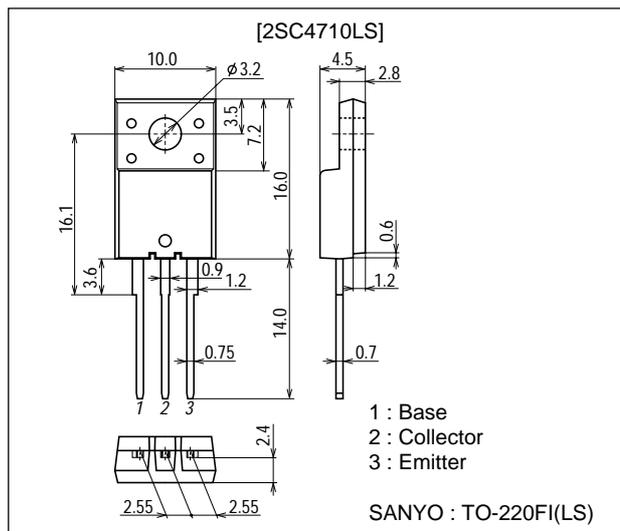
## 2100V / 10mA High-Voltage Amplifier, High-Voltage Switching Applications

### Features

- High breakdown voltage( $V_{CEO\ min}=2100V$ ).
- Small Cob(typical Cob=1.3pF).
- Wide ASO.
- High reliability(Adoption of HVP process).
- Full isolation package.

### Package Dimensions

unit : mm  
2079D



### Specifications

Absolute Maximum Ratings at  $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CB0}$		2100	V
Collector-to-Emitter Voltage	$V_{CEO}$		2100	V
Emitter-to-Base Voltage	$V_{EBO}$		5	V
Collector Current	$I_C$		10	mA
Collector Current (Pulse)	$I_{CP}$		30	mA
Collector Dissipation	$P_C$		2	W
Junction Temperature	$T_J$		150	$^{\circ}C$
Storage Temperature	$T_{stg}$		-55 to +150	$^{\circ}C$

Electrical Characteristics at  $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=2100V, I_E=0$			1	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=4V, I_C=0$			1	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=500\mu A$	10		60	
Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_C=500\mu A$		6		MHz

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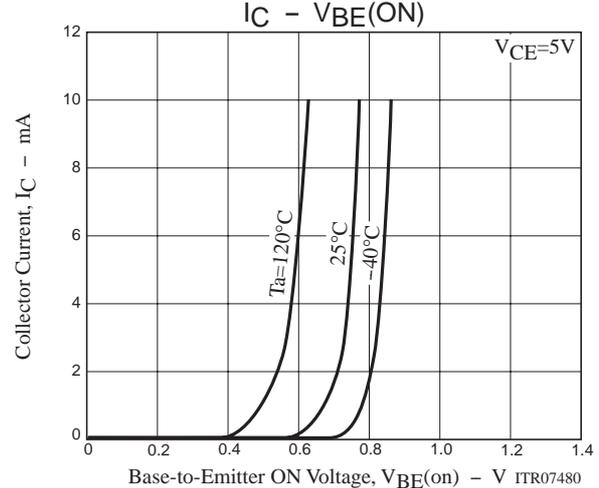
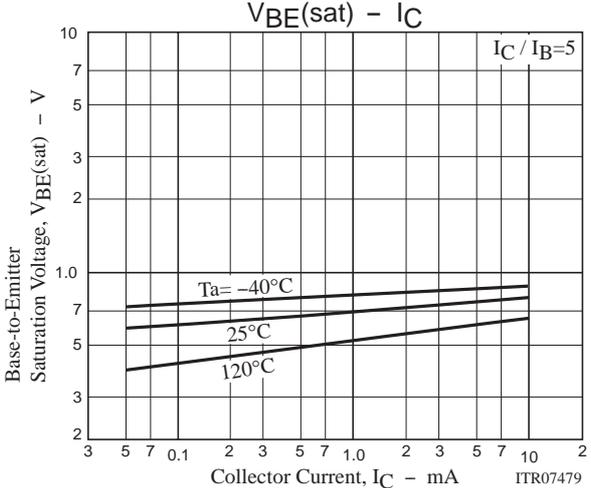
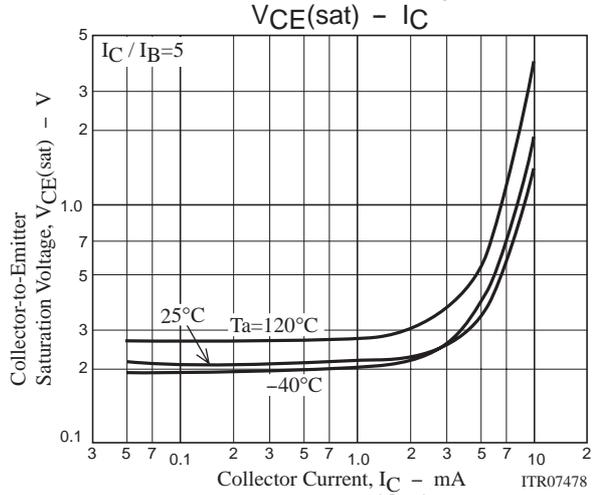
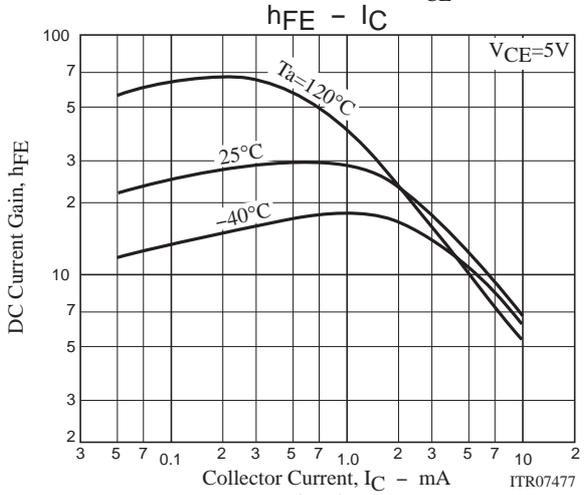
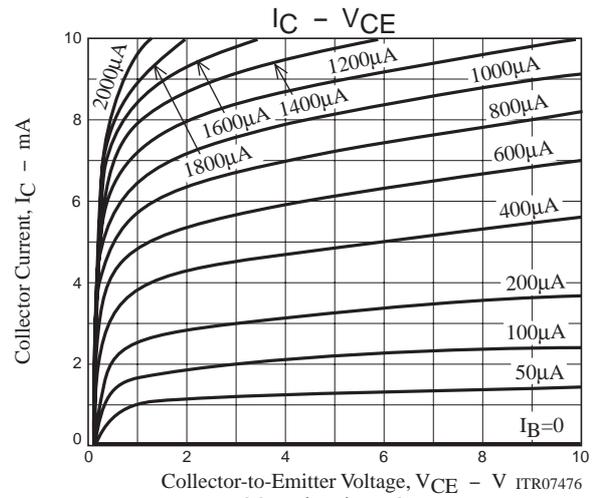
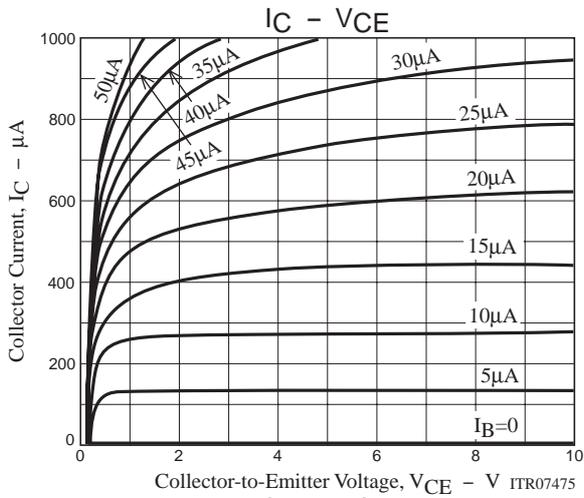
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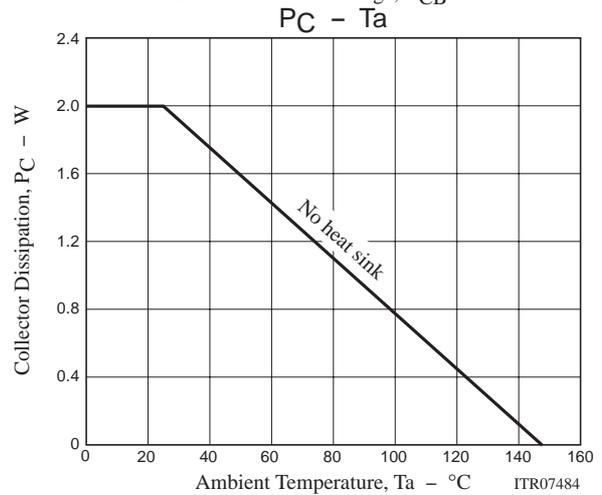
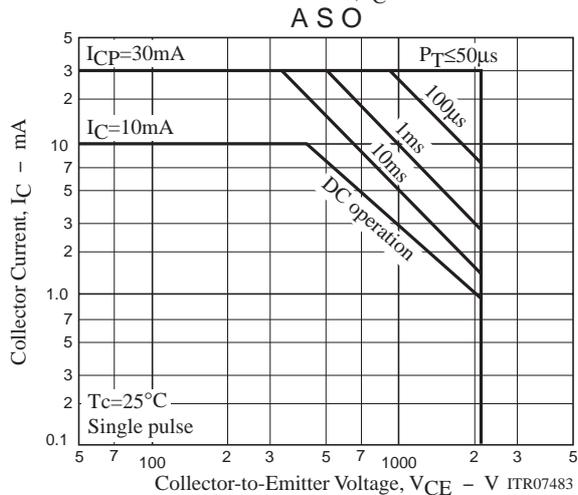
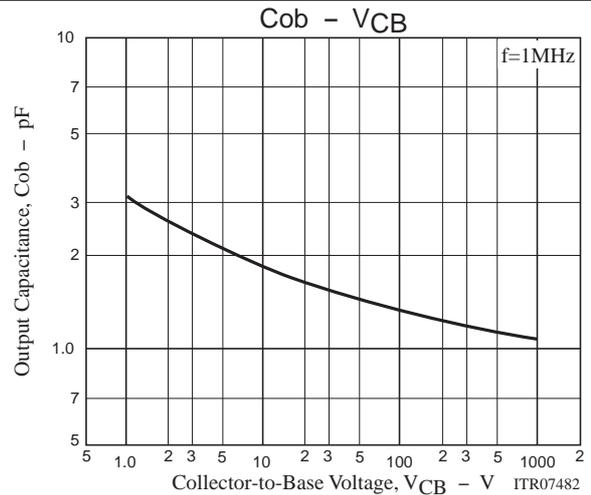
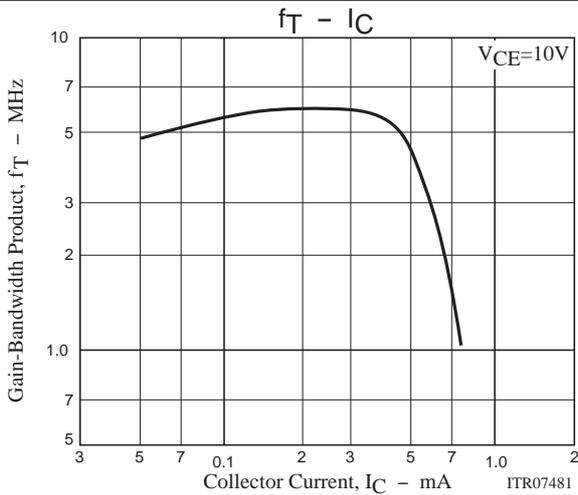
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1mA, I_B=200\mu A$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1mA, I_B=200\mu A$			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	2100			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=100\mu A, R_{BE}=\infty$	2100			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Output Capacitance	$C_{ob}$	$V_{CB}=100V, f=1MHz$		1.3		pF



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