



# 2SC4631LS

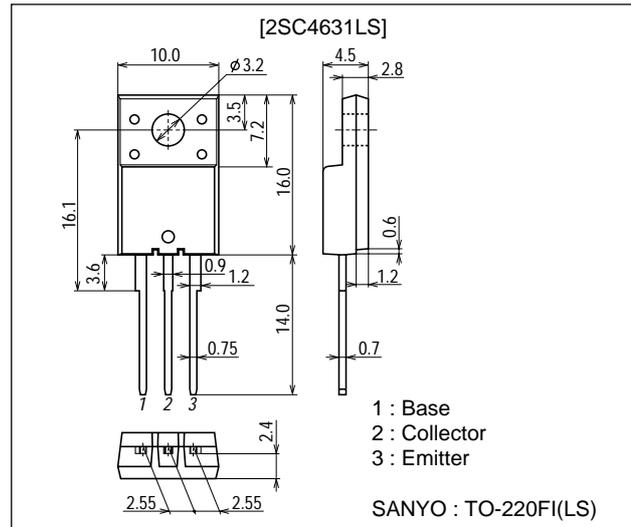
## 900V / 300mA High-Voltage Amplifier, High-Voltage Switching Applications

### Features

- High breakdown voltage( $V_{CEO} \text{ min}=900\text{V}$ ).
- Small Cob(typical Cob=5.0pF).
- Full-isolation package.
- High reliability(Adoption of HVP process).

### Package Dimensions

unit : mm  
2079D



### Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CBO}$		1500	V
Collector-to-Emitter Voltage	$V_{CEO}$		900	V
Emitter-to-Base Voltage	$V_{EBO}$		5	V
Collector Current	$I_C$		300	mA
Collector Current (Pulse)	$I_{CP}$		1	A
Collector Dissipation	$P_C$		2	W
Junction Temperature	$T_J$		150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=900\text{V}, I_E=0$			10	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=4\text{V}, I_C=0$			10	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE}=5\text{V}, I_C=30\text{mA}$	30			
Gain-Bandwidth Product	$f_T$	$V_{CE}=10\text{V}, I_C=30\text{mA}$		6		MHz

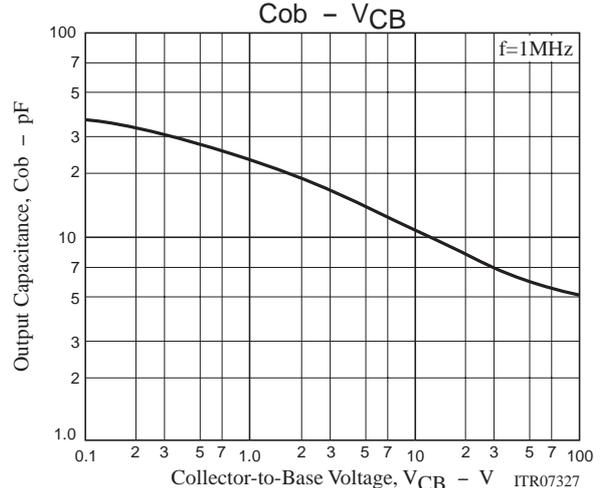
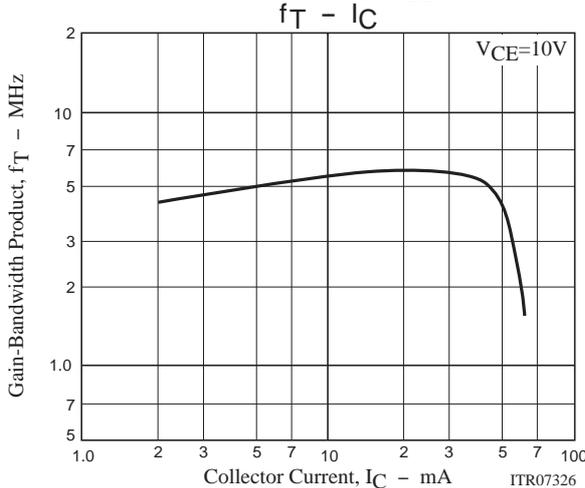
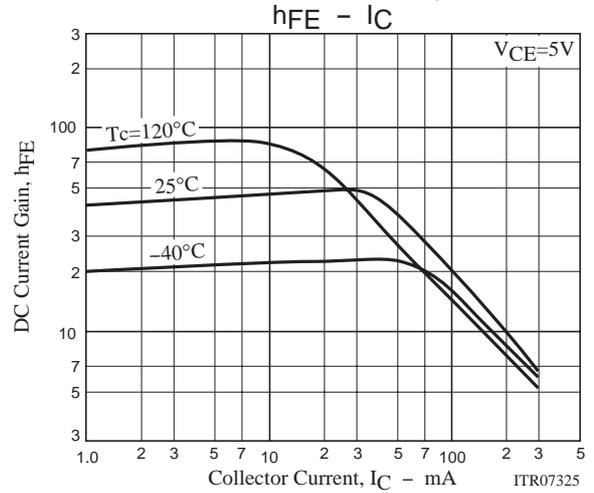
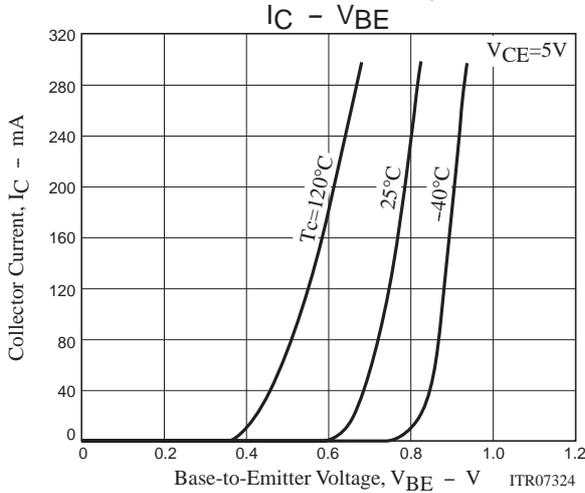
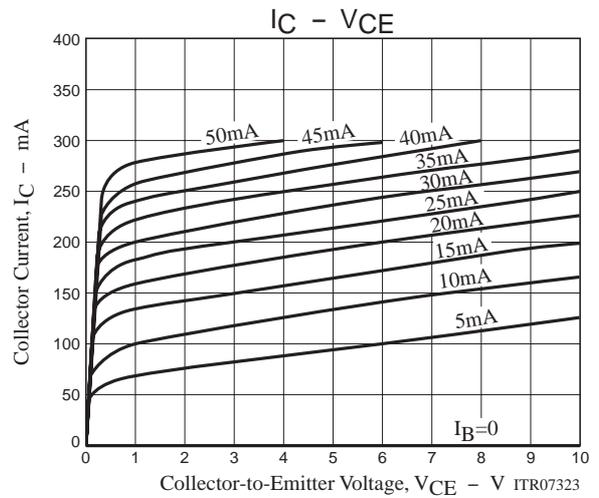
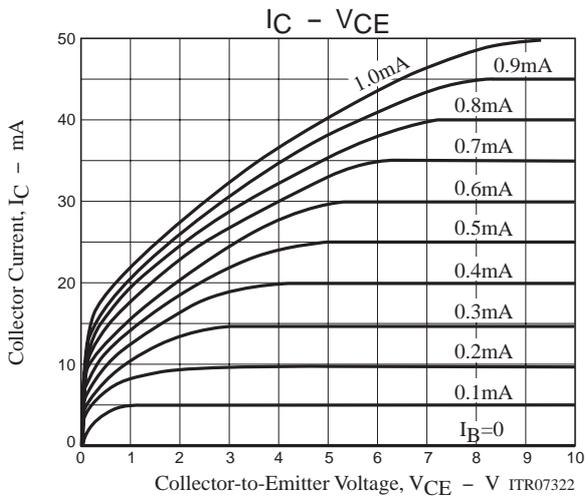
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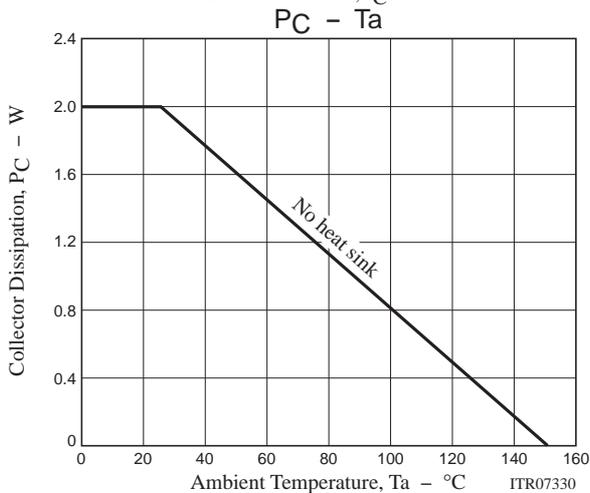
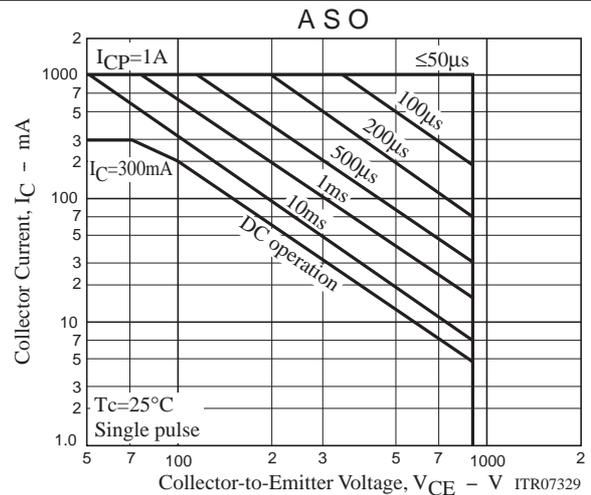
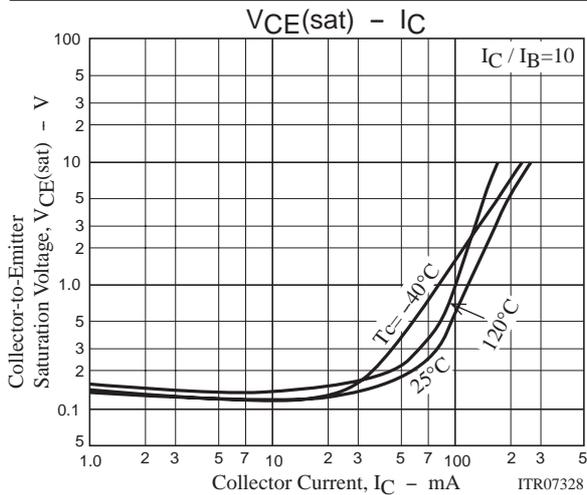
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=60mA, I_B=12mA$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=60mA, I_B=12mA$			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	1500			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	900			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5			V
Output Capacitance	$C_{ob}$	$V_{CB}=100V, f=1MHz$		5.0		pF
Thermal Resistance	$R_{thj-c}$	Junction - case			6.25	$^{\circ}C/W$



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