



2SC4631LS

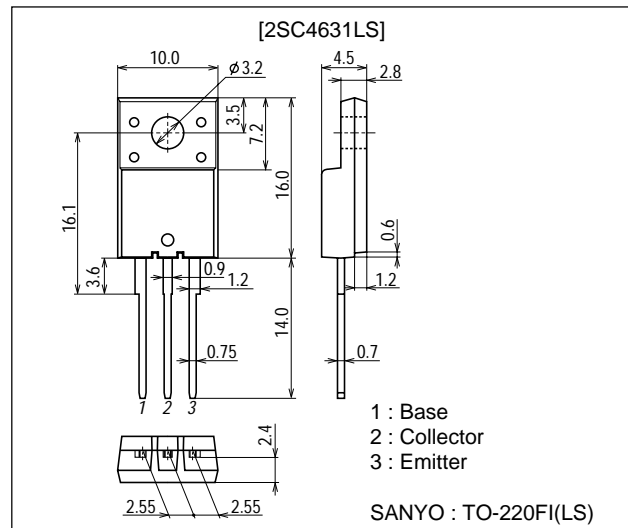
900V / 300mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage(V_{CEO} min=900V).
- 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_{CB0}		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	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			10	μA
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

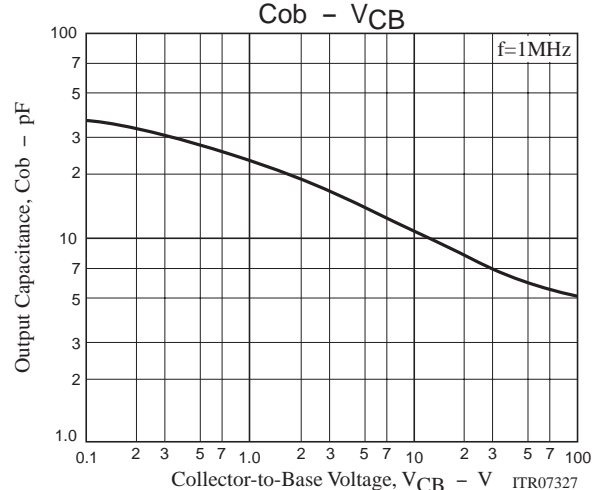
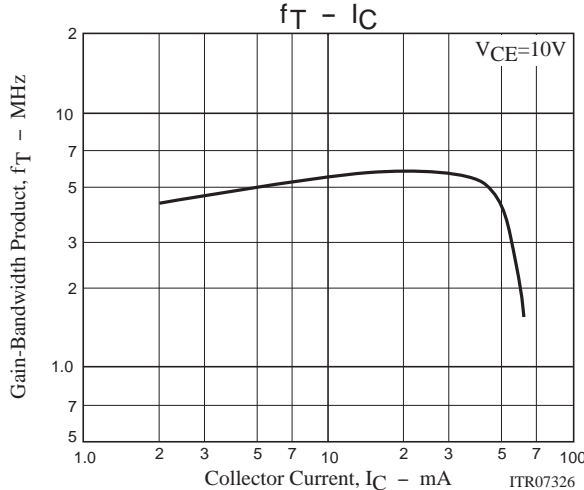
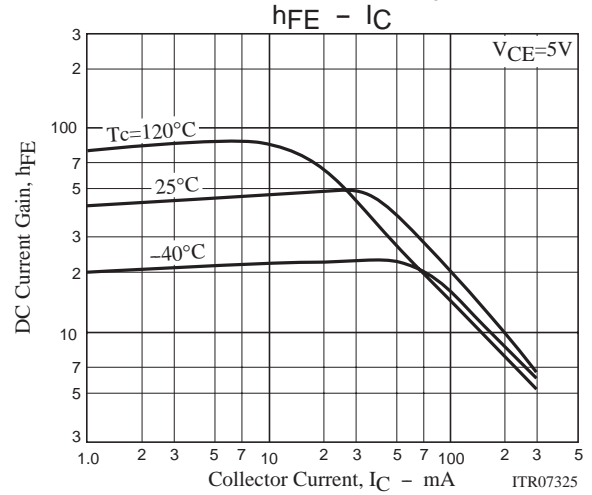
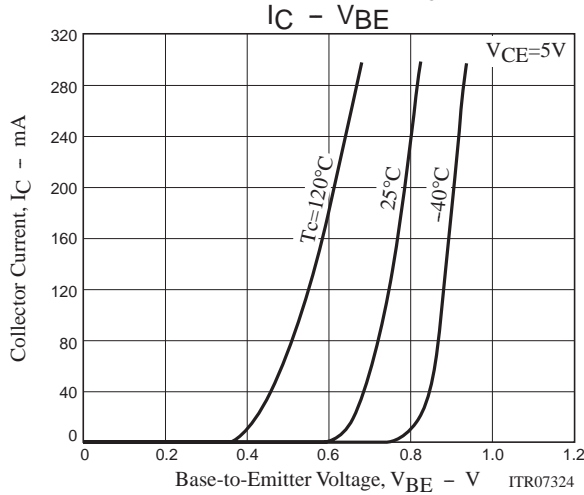
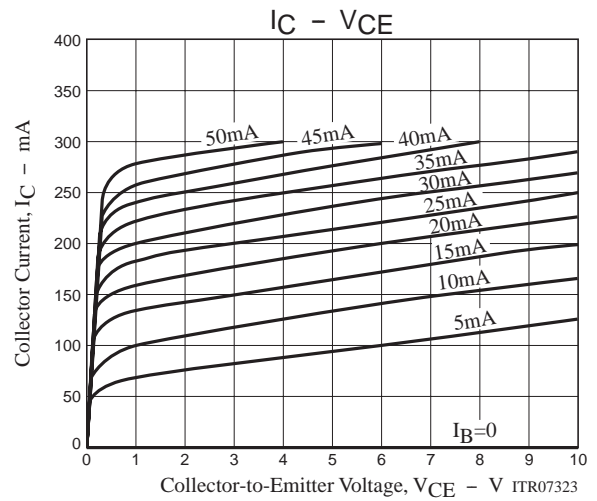
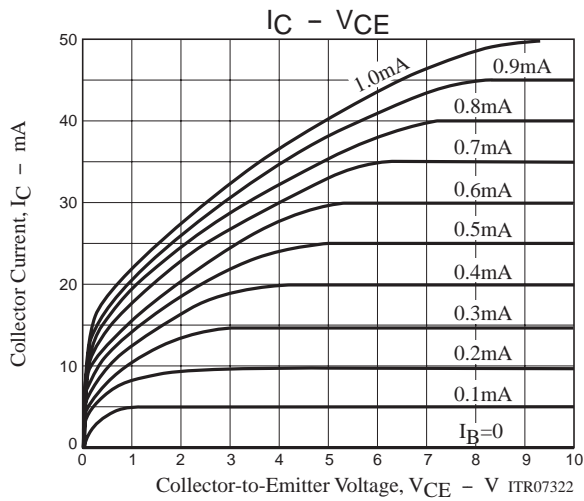
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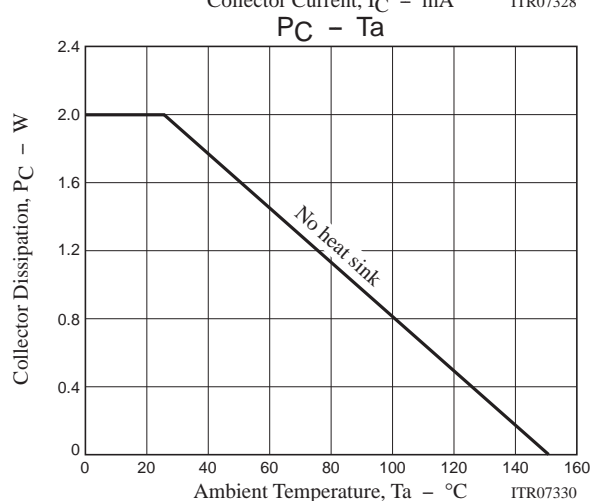
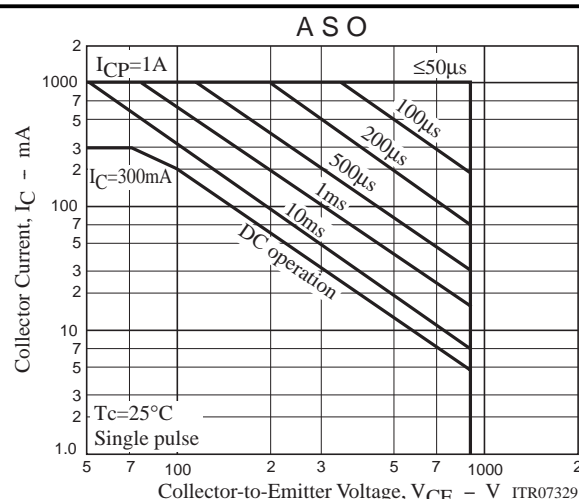
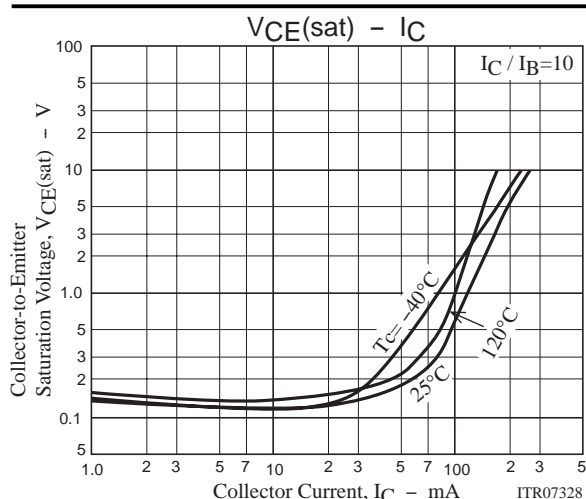
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=60mA, I_B=12mA$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=60mA, I_B=12mA$			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	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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