

2SC4631LS

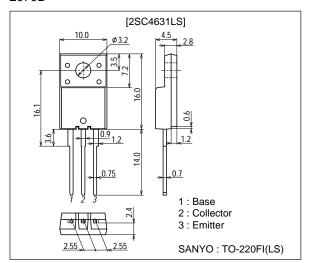
900V / 300mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage(VCEO 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 Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		900	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		300	mA
Collector Current (Pulse)	ICP		1	Α
Collector Dissipation	PC		2	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onne
Collector Cutoff Current	ICBO	V _{CB} =900V, I _E =0			10	μΑ
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			10	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =30mA	30			
Gain-Bandwidth Product	fΤ	VCE=10V, IC=30mA		6		MHz

Continued on next page.

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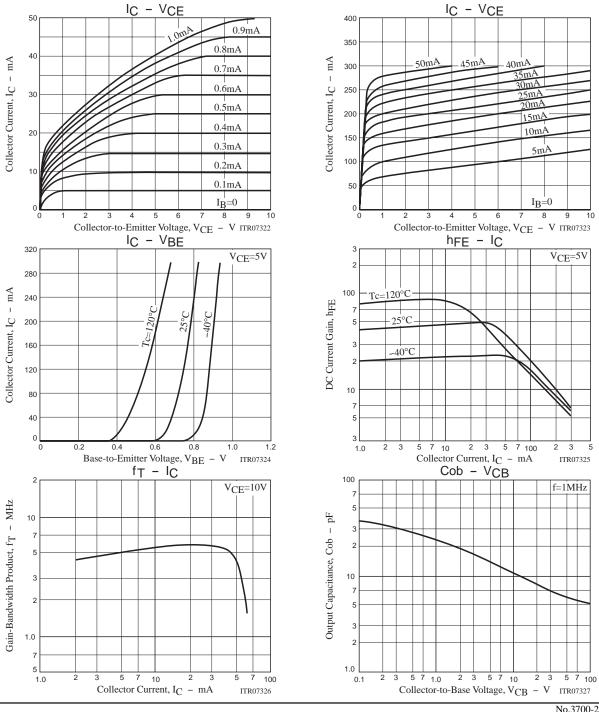
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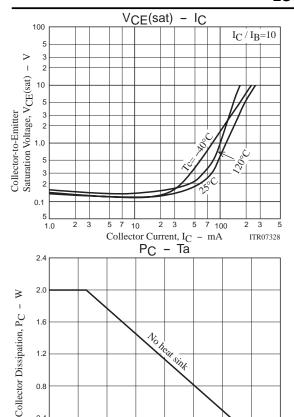
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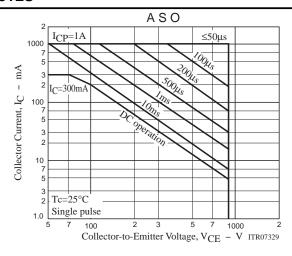
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Office
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=60mA, IB=12mA			5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =60mA, I _B =12mA			2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=1mA, IE=0	1500			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, R _{BE} =∞	900			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE=1mA, IC=0	5			V
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		5.0		pF
Thermal Resistance	Rthj-c	Junction – case			6.25	°C/W



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80 Ambient Temperature, Ta - °C



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ITR07330

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