

2SC4631

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

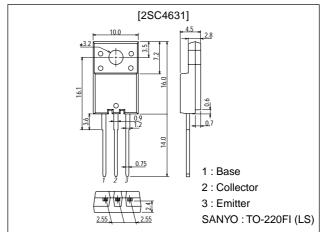
Features

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

Package Dimensions

unit:mm

2079B



Specifications

Absolute Maximum Ratings at Ta = 25°C

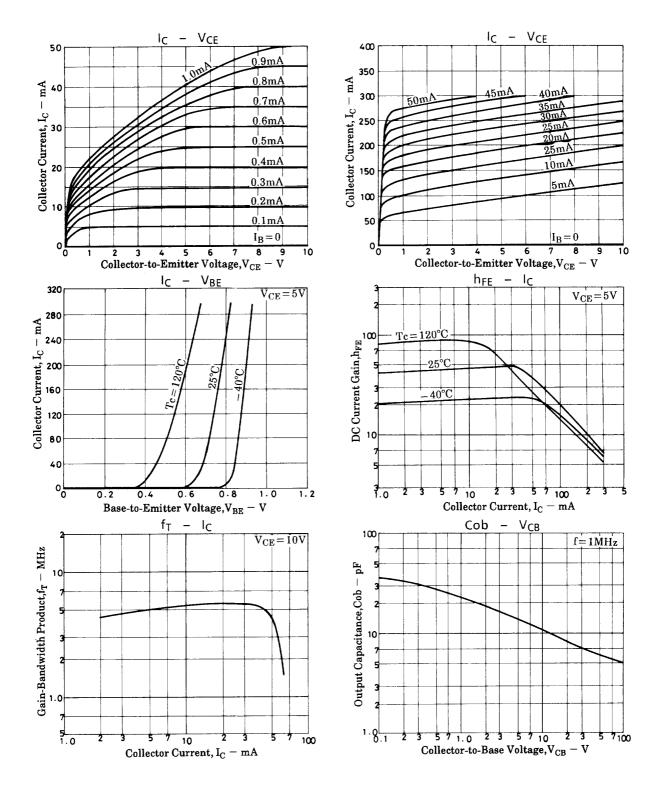
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1500	V
Collector-to-Emitter Voltage	VCEO		900	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	I _C		300	mA
Collector Current (Pulse)	I _{CP}		1	Α
Collector Dissipation	PC		2	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

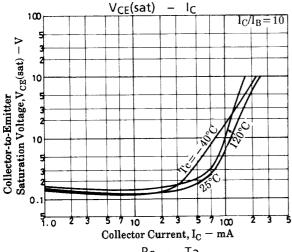
Electrical Characteristics at Ta = 25°C

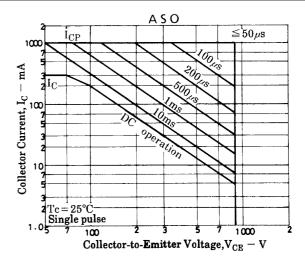
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CBO}	V _{CB} =900V, I _E =0			10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			10	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =30mA	30			
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =30mA		6		MHz
Collector-to-Emitter 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} =∞	900			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	$I_E=1$ mA, $I_C=0$	5			V

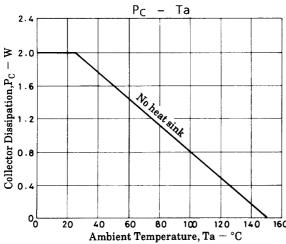
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O III
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		5.0		pF
Thermal Resistance	Rthj-c	Junction – case			6.25	°C/W









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