

2SA1968

High-Voltage Amplifier, High-Voltage Switching Applications

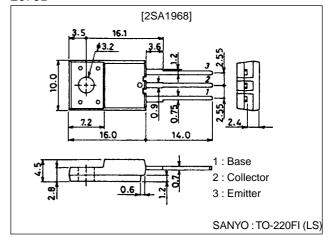
Features

- · High breakdown voltage (V_{CEO} min=–900V).
- · Small C_{ob} (C_{ob} typ=2.2pF).
- · High reliability (Adoption of HVP process).
- \cdot Package of full isolation type.

Package Dimensions

unit:mm

2079B



Specifications

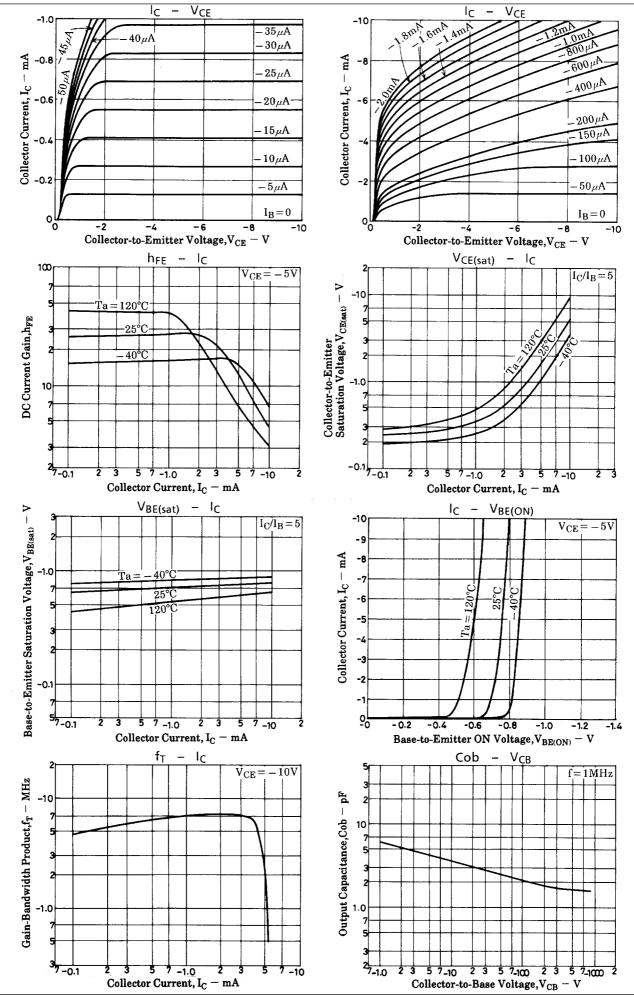
Absolute Maximum Ratings at Ta = 25°C

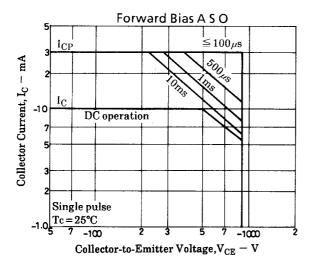
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-900	V
Collector-to-Emitter Voltage	V _{CEO}		-900	V
Emitter-to-Base Voltage	V _{EBO}		- 7	V
Collector Current	IC		-10	mA
Collector Current (Pulse)	I _{CP}		-30	mA
Collector Dissipation	PC		2	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

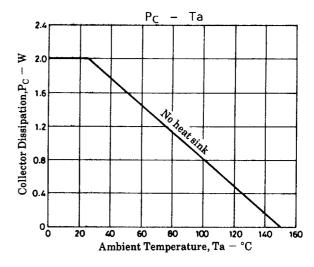
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =-900V, I _E =0			-1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-5V, I _C =0			-1	μA
DC Current Gain	h _{FE}	V _{CE} =-5V, I _C =-1mA	20		50	
Gain-Bandwidth Product	f _T	V _{CE} =-10V, I _C =-1mA		6		MHz
Output Capacitance	C _{ob}	V _{CB} =-100V, f=1MHz		2.2		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-500μA, I _B =-100μA			-1	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500μA, I _B =-100μA			-1.5	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =-100μA, I _E =0	-900			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 =-100μA, I _C =0	-7			V

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