

2SC4636

1800V/10mA High-Voltage Amplifier, High-Voltage Switching Applications

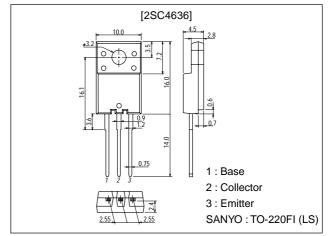
Features

- · High breakdown voltage (V_{CEO} min=1800V).
- · Small Cob (typical Cob=1.4pF).
- · Full-isolation package.
- \cdot High reliability (Adoption of HVP process).

Package Dimensions

unit:mm

2079B



Specifications

Absolute Maximum Ratings at Ta = 25°C

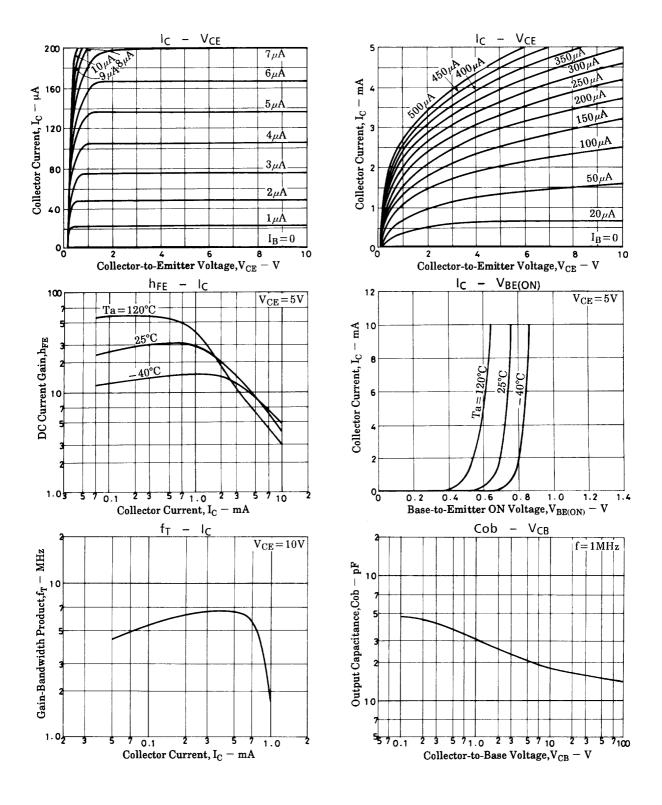
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		2000	V
Collector-to-Emitter Voltage	VCEO		1800	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	lc		10	mA
Collector Current (Pulse)	l _{CP}		30	mA
Collector Dissipation	PC		2	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

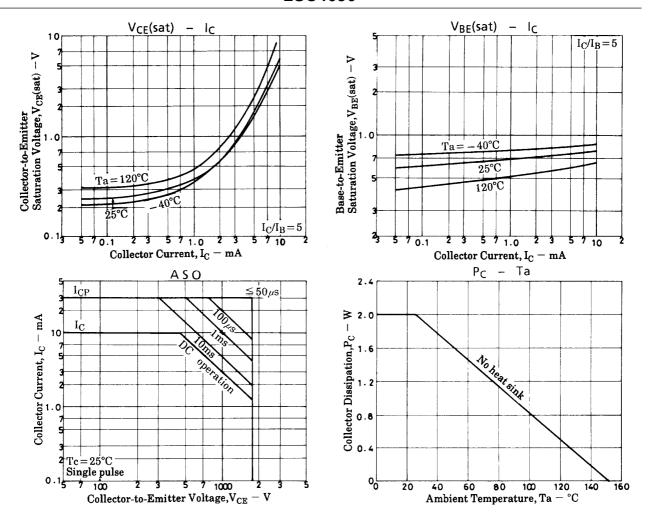
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oilit
Collector Cutoff Current	I _{CBO}	V _{CB} =1800V, I _E =0			1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =100μA	10		60	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =100μA		6		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =200μA, I _B =40μA			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =200μA, I _B =40μA			2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	2000			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =100μA, R _{BE} =∞	1800			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	5			V

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	01111
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		1.4		pF
Thermal Resistance	Rthj-c	Junction – case			12.5	°C/W





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