

2SC4696

Driver Applications

Applications

· Motor drivers, printer hammer drivers.

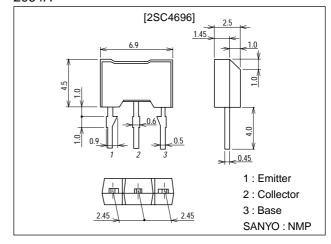
Features

- · Darlington connection.
- On-chip Zener diode of 90±10V between collector and base.
- · High DC current gain.
- · High inductive load handling capability.

Package Dimensions

unit:mm

2064A



Specifications

Absolute Maximum Ratings at Ta = 25°C

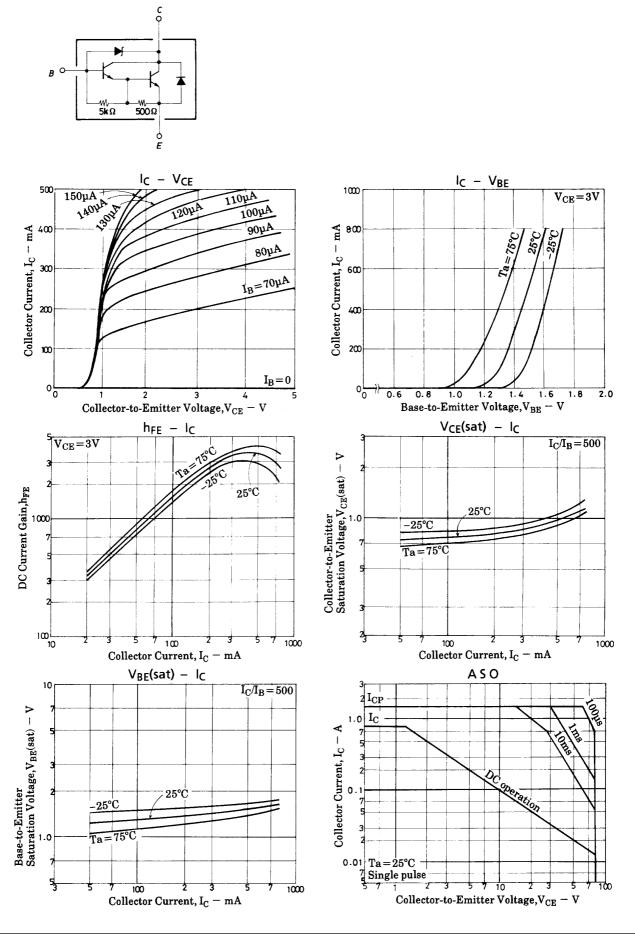
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}	With a low-voltage diode (90±10V)	80	V
Collector-to-Emitter Voltage	V _{CEO}	With a low-voltage diode (90±10V)	80	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	IC		0.8	Α
Collector Current (Pulse)	I _{CP}		1.5	Α
Base Current	I _B		0.1	А
Collector Dissipation	PC		1.0	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

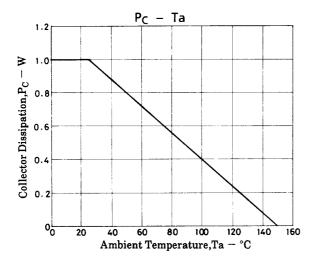
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CBO}	V _{CB} =60V, I _E =0			10	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB}=5V$, $I_{C}=0$			2	mA
DC Current Gain	h _{FE}	$V_{CE}=3V$, $I_{C}=500$ mA	1000		20000	
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =500mA, I _B =1mA		0.95	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =500mA, I _B =1mA		1.5	2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =100μA, I _E =0	80		100	V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	80		100	V
Inductive Load Handling Capability	Es/b	L=30mH, R_{BE} =100 Ω	25			mJ

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Electrical Connection





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