

**2SC4696****Driver Applications****Applications**

- Motor drivers, printer hammer drivers.

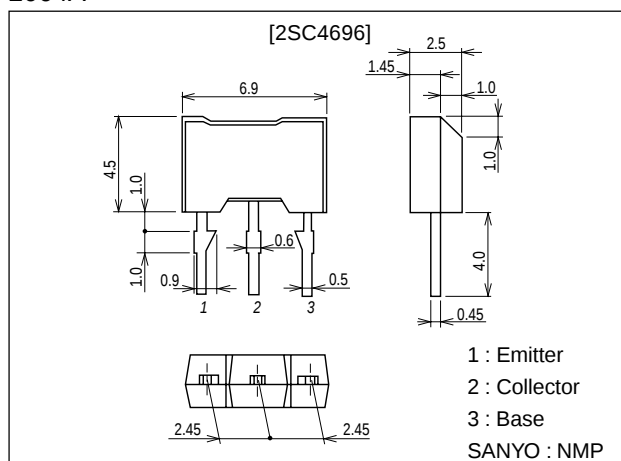
Features

- Darlington connection.
- On-chip Zener diode of $90\pm 10\text{V}$ between collector and base.
- High DC current gain.
- High inductive load handling capability.

Package Dimensions

unit:mm

2064A

**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}	With a low-voltage diode ($90\pm 10\text{V}$)	80	V
Collector-to-Emitter Voltage	V_{CEO}	With a low-voltage diode ($90\pm 10\text{V}$)	80	V
Emitter-to-Base Voltage	V_{EBO}		6	V
Collector Current	I_C		0.8	A
Collector Current (Pulse)	I_{CP}		1.5	A
Base Current	I_B		0.1	A
Collector Dissipation	P_C		1.0	W
Junction Temperature	T_J		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=60\text{V}$, $I_E=0$			10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$			2	mA
DC Current Gain	h_{FE}	$V_{CE}=3\text{V}$, $I_C=500\text{mA}$	1000		20000	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}$, $I_B=1\text{mA}$		0.95	1.5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500\text{mA}$, $I_B=1\text{mA}$		1.5	2.0	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$, $I_E=0$	80		100	V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}$, $R_{BE}=\infty$	80		100	V
Inductive Load Handling Capability	Es/b	$L=30\text{mH}$, $R_{BE}=100\Omega$	25			mJ

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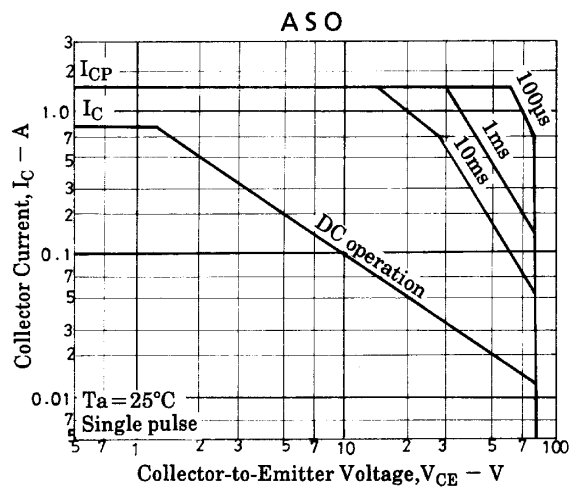
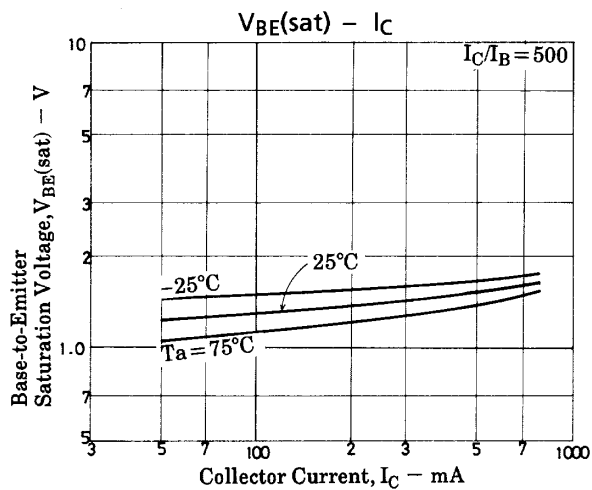
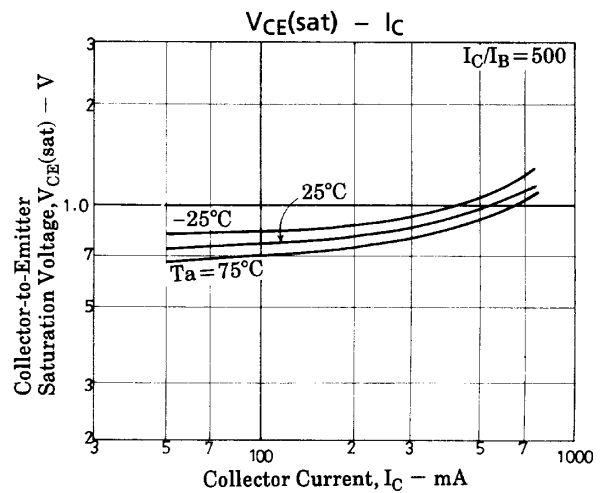
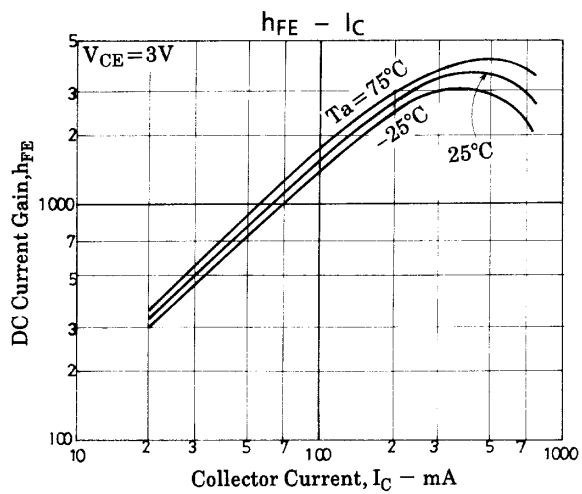
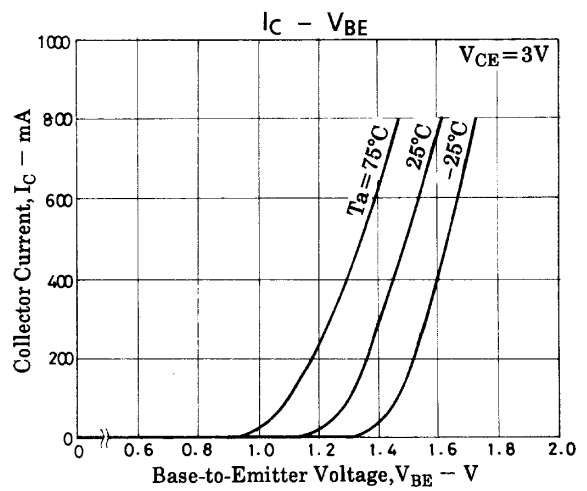
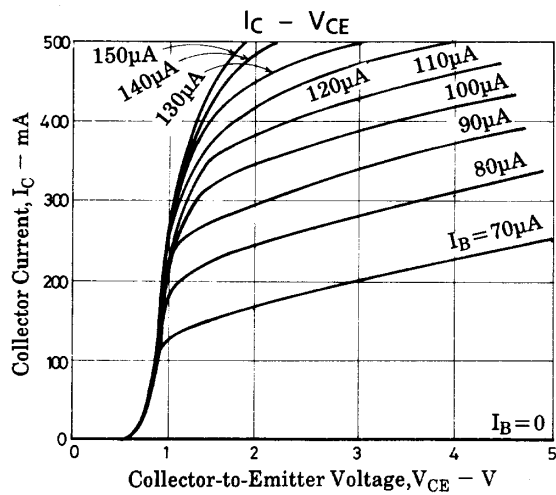
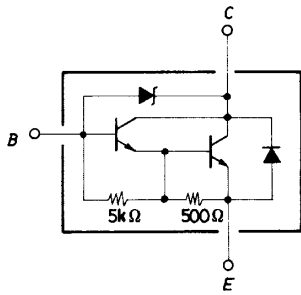
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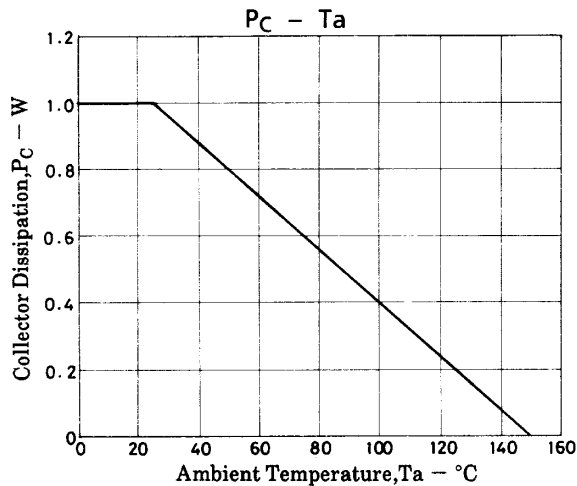
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Electrical Connection





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