2SD2298

Silicon NPN Triple Diffused

HITACHI

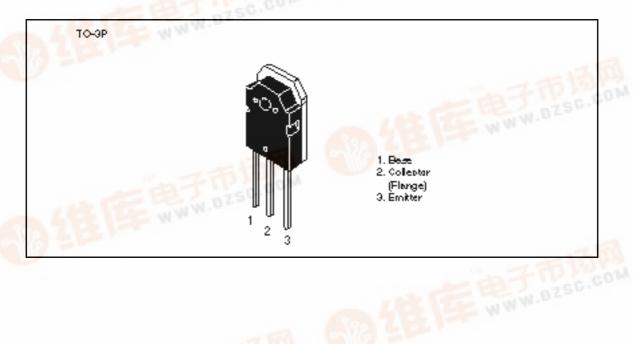
Application

CTV horizontal deflection output

Features

• High breakdown voltage $V_{\text{CBO}} = 1500 \; V$

Outline





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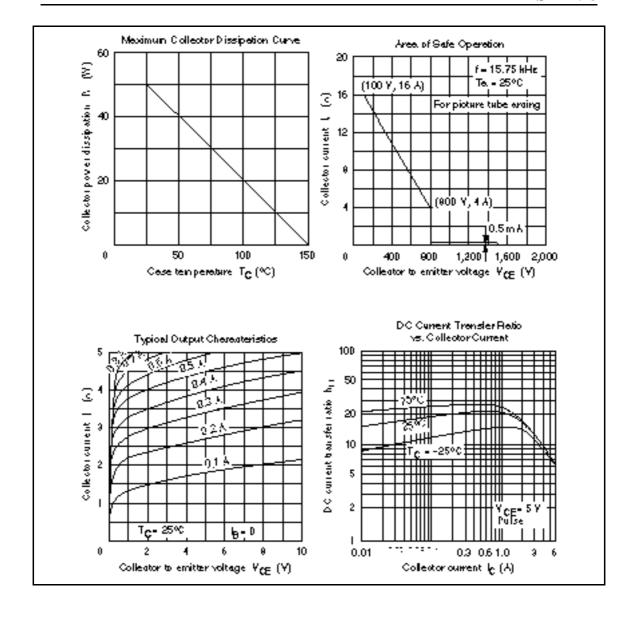
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Symbol	Ratings	Unit
V _{CBO}	1500	V
V _{CEO}	800	V
V_{EBO}	6	V
I _c	6	А
I _{C(peak)}	7	Α
I _{C(surge)}	16	Α
P _c *1	50	W
Tj	150	°C
Tstg	-55 to +150	°C
	V_{CBO} V_{CEO} V_{EBO} I_{C} $I_{C(peak)}$ $I_{C(surge)}$ P_{C}^{*1}	$\begin{array}{cccc} V_{CBO} & 1500 \\ V_{CEO} & 800 \\ V_{EBO} & 6 \\ I_{C} & 6 \\ I_{C(peak)} & 7 \\ I_{C(surge)} & 16 \\ P_{C}^{*1} & 50 \\ Tj & 150 \\ \end{array}$

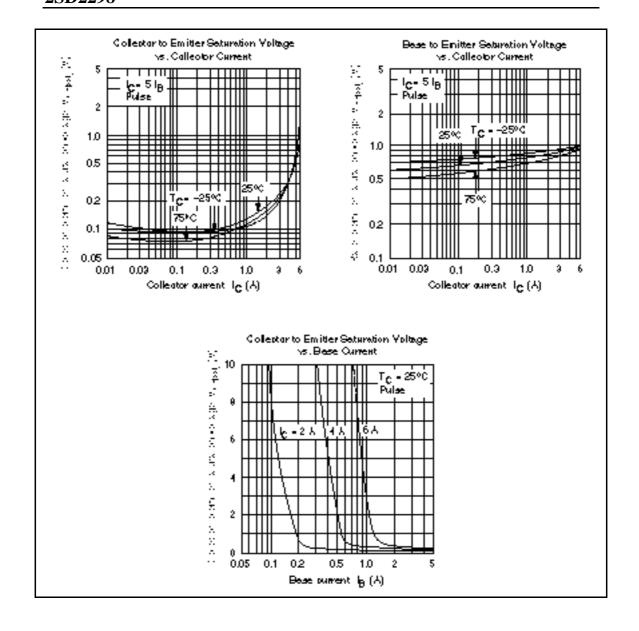
Note: 1. Value at $T_c = 25$ °C.

Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	800	_	_	V	$I_{\rm C}$ = 10 mA, $R_{\rm BE}$ =
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	_	_	V	$I_{\rm E} = 10 \text{ mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CES}	_	_	500	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} = 0$
DC current transfer ratio	h _{FE}	_	_	30		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	5	V	$I_{\rm C} = 5 \text{ A}, I_{\rm B} = 1 \text{ A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	_	1.5	V	$I_{\rm C} = 5 \text{ A}, I_{\rm B} = 1 \text{ A}$
Fall time	t _f	_	_	0.8	μs	$I_{CP} = 5 \text{ A}, I_{B1} = 1 \text{ A},$ $f_{H} = 15.75 \text{ kHz}$



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HITACHI

Hitachi, Ltd.
Semiconductor & IC Div.
Nepon Bidg, 2-5-2, Ohte-medii, Chiyode-ku, Tokyo 100, Jepan Tet Tokyo (03, 3270-2111)
Fax: (03, 3270-5109)

For further in forme I on write to : Historii America, Ltd.

Semiconductor & IC Dw. 2000 Sierre Point Perkwey Briebene, CA. 94005-4835 U.S.A.

Tet 415-589-8300 Fex: 415-583-4207 Hitechi Burope GmbH Bedronic Componente Group Continental Burope Dornacher Straße 3 D-85622 Feldkirchen München Tet 089-9 94 80-0 Fex 089-9 20 30 00 Hitachi Burope Ltd.
Bedronic Componente Div.
Northern Burope Headquarters
Whilebrook Perk
Lower Cook fem Road
Maidenhead
Berkehine SL68YA
Urited Kingdom
Tet 0628-585000
Fex: 0628-778322

Hischi Asie Pte, Ltd 45 Collyer Quey #20-00 Hischi Tower Singapore 0104 Tet 535-2100 Fex: 535-1533

Hitachi Asia (Hong Kong) Ltd. Unit 705, North Towar, World Finance Cantra, Harbour City, Carton Road Taim Sha Taul, Kowloon Hong Kong Tat 27:592/18 Fax: 27:306074