

Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Ratings	Unit V	
Collector to base voltage	V _{CBO}	120		
Collector to emitter voltage	V _{CEO}	120	V	
Emitter to base voltage	V _{EBO}	7	V	
Collector current	I _c	1.5	А	
Collector peak current	i _{C(peak)} *1	3.0	А	
Collector power dissipation	P _c * ²	1.0	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	
E to C diode forward current	I _D	1.5	А	

Notes: 1. Pluse 10 ms, Duty cycle 20%

2. Value on the alumina ceramic board (12.5 x 30 x 0.7 mm)

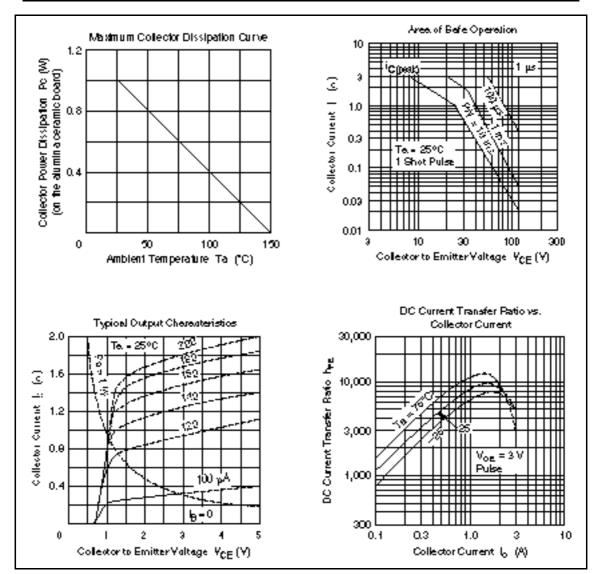
Electrical Characteristics (Ta = 25°C)

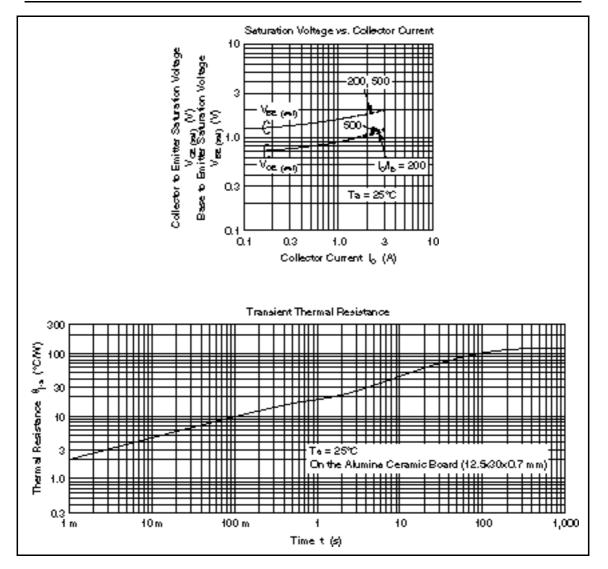
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	120	_	_	V	$I_{c} = 0.1 \text{ mA}, I_{e} = 0$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	120	_	_	V	$I_c = 10$ mA, $R_{BE} =$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	7	_	_	V	$I_{\rm e} = 50$ mA, $I_{\rm c} = 0$
Collector cutoff current	I _{CBO}	_	_	1.0	μA	$V_{CB} = 100 \text{ V}, I_{E} = 0$
	I _{CEO}	_	_	10	μA	V_{ce} = 100 V, R_{be} =
DC current transfer ratio	h _{FE}	2000	_	30000		V_{ce} = 3 V, I_c = 1 A ^{*1}
Collector to emitter saturation voltage	$V_{\text{CE}(\text{sat})1}$	_	_	1.5	V	$I_{c} = 1 \text{ A}, I_{B} = 1 \text{ mA}^{*1}$
	$V_{\text{CE(sat)2}}$	—	_	2.0	V	$I_{c} = 1.5 \text{ A}, I_{B} = 1.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{\text{BE(sat)1}}$		_	2.0	V	$I_{c} = 1 \text{ A}, I_{B} = 1 \text{ mA}^{*1}$
	$V_{\text{BE(sat)2}}$	_	—	2.5	V	I _c = 1.5 A, I _B = 1.5 mA ^{*1}
E to C diode forward voltage	V _D		_	3.0	V	$I_{\rm D} = 1.5 \ {\rm A}^{*1}$

Notes: 1. Pulse test

2. Marking is "CT".

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Hitachi, Ltd.

Semiconductor & IC DV. Neppon Bidg, 2-5-2, Ohte-mach, Chiyoda-ku, Tokyo 100, Japan Tet Tokyo (03, 3270-2111 Fax (03, 3270-5109

For Author in formation write to : Hisochi America, Ubd Semiconductor & IC Div. 2000 Sierre Point Perlavay Briebena, CA. 94005-1835 U SA U SA Tet 1415-583-4207

Haschi Burope GmbH Bedronic Components Group Carbinertel Burope Danscher Streße 3 D-85522 Fieldkirchen Mänchen Tet 089-9 94 80-0 Fex: 089-9 29 30 00 Hischi Burope Ltd. Bedronic Components Div. Northern Burope Headquerters Whilebrook Perk Lower Cook hem Roed Meidenhead Berkshire SL6SYÅ Urited Kingdom Tet 0628-555000 Fax: 0628-178322 Hitschi Asia Pta. Ltd 16 Collyer Quay \$20-00 Hitschi Tower Snappore 0104 Test 535-2100 Fex: 535-1533

Hashi Asis (Hong Kong) Ltd. Urit 705, North Tower, World Finance Cantre, Herbour City, Carton Road Taim Ste Toui, Kowtoon Hong Kong Tet 27350218 Fax: 27350218

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