

Absolute Maximum Ratings $(1a - 25 C)$						
Item	Symbol	Ratings	Unit			
Collector to base voltage	V _{CBO}	50	V			
Emitter to base voltage	V _{EBO}	7	V			
Collector current	I _c	1.5	А			
Collector peak current	iC (peak)	3.0	А			
Collector power dissipation	Pc	1.0	W			
Junction temperature	Tj	150	°C			
Storage temperature	Tstg	-55 to +150	°C			
E to C diode forward current	Ι _D	1.5	А			

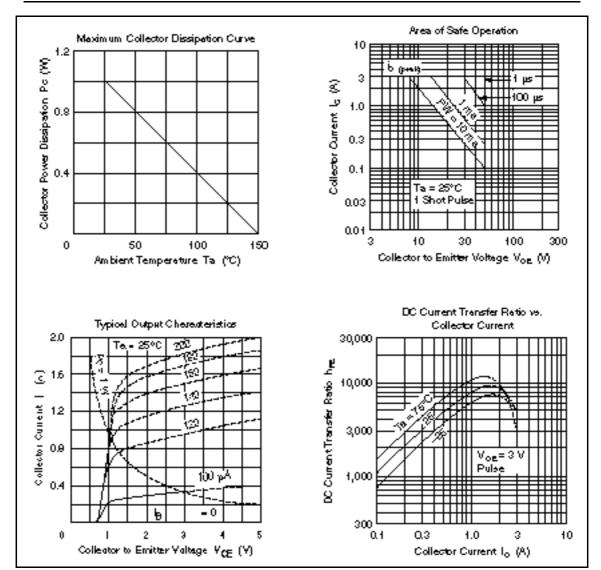


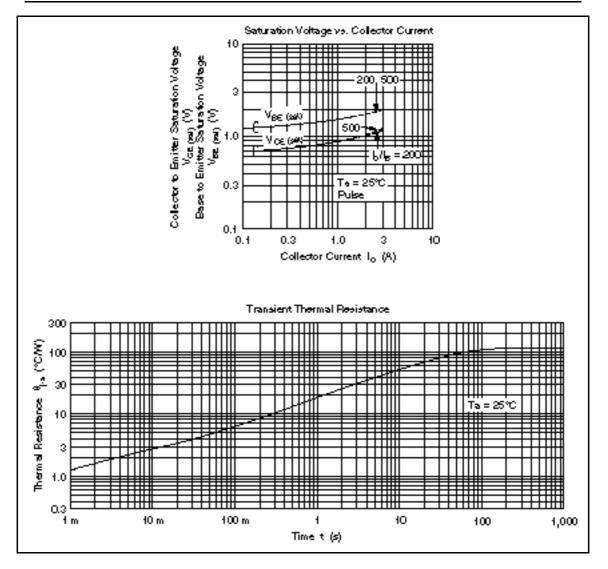
Electrical Characteristics (Ta = 25° C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage (Zener breakdown voltage)	V _{(BR)CBO} (V _z)	50	60	70	V	$I_{c} = 0.1 \text{ mA}, I_{e} =$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	50	_	_	V	$I_c = 10$ mA, $R_{\scriptscriptstyle BE} =$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	7	_	_	V	$I_{\rm E} = 50$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CEO}	_	_	10	μA	V_{ce} = 40 V, R _{be} =
DC current transfer ratio	h _{FE}	2000	—	10000		$V_{ce} = 3 V, I_c = 1 A^{*1}$
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	$V_{BE(sat)1}$	—	—	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	$I_{\rm D} = 1.5 \ {\rm A}^{*1}$
Natar A Dulas test						

Note: 1. Pulse test

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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 : Histohi America, Ubd Semiconductor & IC DW. 2000 Sierre Point Perlavay Briebena, CA. 94005-4835 U SA U SA Tet 415-583-4207

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 Pte. Ltd 16 Collyer Quey \$20-00 Hitschi Tower Snappore 0404 Tet 535-2400 Fex: 535-4533

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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