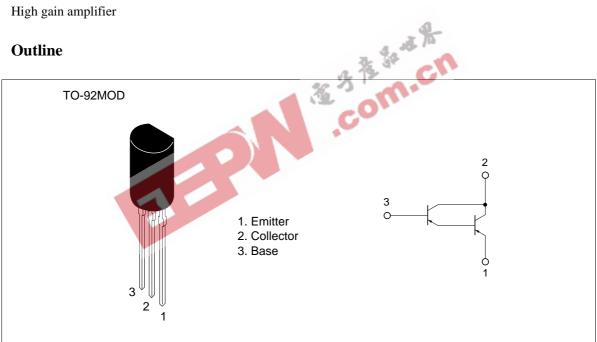
Silicon PNP Epitaxial, Darlington

HITACHI

Application

High gain amplifier

Outline





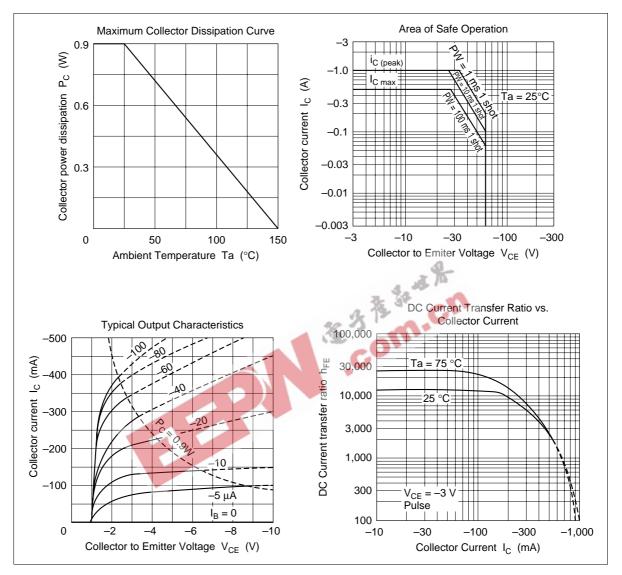
Absolute Maximum Ratings (Ta = 25° C)

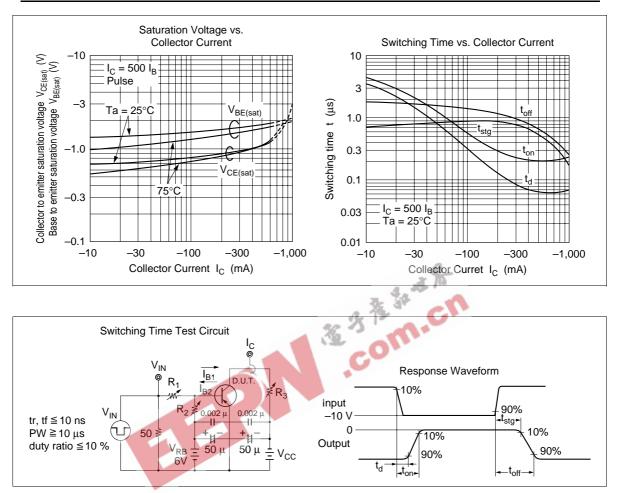
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	-60	V
Collector to emitter voltage	V _{CEO}	-60	V
Emitter to base voltage	V _{EBO}	-7	V
Collector current	I _c	-0.5	A
Collector peak current	İ _{C(peak)}	-1.0	A
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

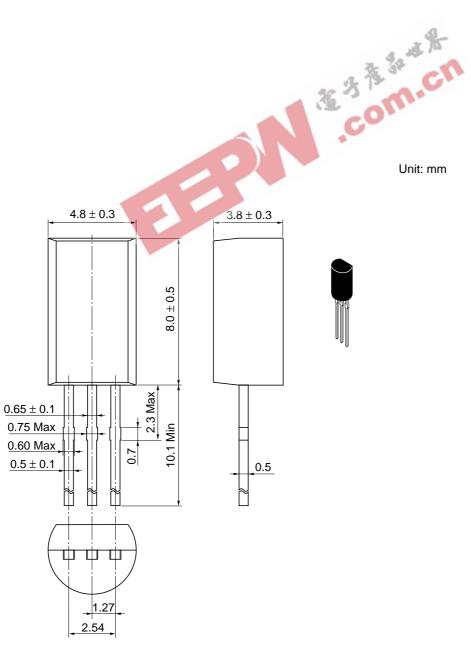
Electrical Characteristics (Ta = 25° C)

	The state of the s					
Electrical Characteristic	25°C)	1 3 4 St C				
Item	Symbol	Min	Тур 🁷	Мах	Unit	Test conditions
Collector to emitter breakdown voltage	V _{(BR)CEO}	-60		05	V	$I_c = -1 \text{ mA}, \text{ R}_{BE} = \infty$
Collector cutoff current	Сво	- A		-1.0	μΑ	$V_{CB} = -60 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	75	_	-1.0	μΑ	$V_{EB} = -7 V, I_{C} = 0$
DC current transfer ratio	h _{FE}	2000	_	—		$V_{ce} = -3 \text{ V}, \text{ I}_{c} = -250 \text{ mA}^{*1}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	-1.5	V	$I_c = -250 \text{ mA}, I_B = -0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	—	-2.0	V	_
Turn on time	t _{on}	—	0.3	_	μs	I _c = -250 mA
Turn off time	t _{off}		0.9	_	μs	$I_{B1} = -I_{B2} = -0.5 \text{ mA}$

Note: 1. Pulse test







Hitachi Code	TO-92 Mod
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.35 g

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Hitachi, Ltd.

URI

Nippon Bldg., 2-6-2, Otte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

Hitachi Europe GmbH

NorthAmerica http:semiconductor.hitachi.com/ http://www.hitachi-eu.com/hel/ecg Europe http://www.has.hitachi.com.sg/grp3/sicd/index.htm http://www.has.hitachi.com.sg/grp3/sicd/index.htm Asia (Singapore) Asia (Taiwan) Asia (HongKong) http://www.hitachi.com.hk/eng/bo/grp3/index.htm http://www.hitachi.co.jp/Sicd/indx.htm

Japan

For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive, San Jose,CA 95134 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223

Electronic components Group Dornacher Stra§e 3 D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00 Hitachi Europe Ltd. Electronic Components Group. Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 778322

Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 049318 Tel: 535-2100 Fax: 535-1533

Hitachi Asia Ltd Taipei Branch Office 3F, Hung Kuo Building. No.167 Tun-Hwa North Road, Taipei (105) Tel: <886> (2) 2718-3666 Fax: <886> (2) 2718-8180

Hitachi Asia (Hong Kong) Ltd. Group III (Electronic Components) 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong Tel: <852> (2) 735 9218 Fax: <852> (2) 730 0281 Telex: 40815 HITEC HX

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