2SC5022

Silicon NPN Triple Diffused

HITACHI

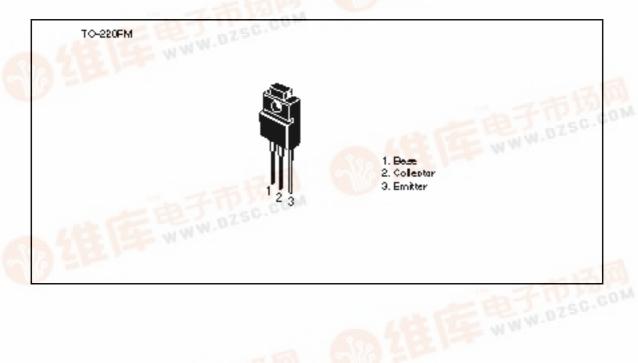
Application

High voltage amplifier

Features

• High breakdown voltage $V_{(BR)CEO} = 1500 \text{ V Min}$

Outline





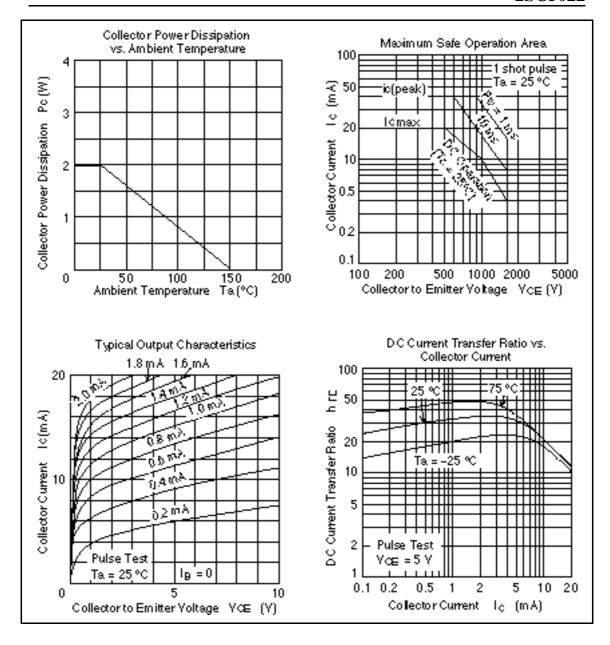
2SC5022

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

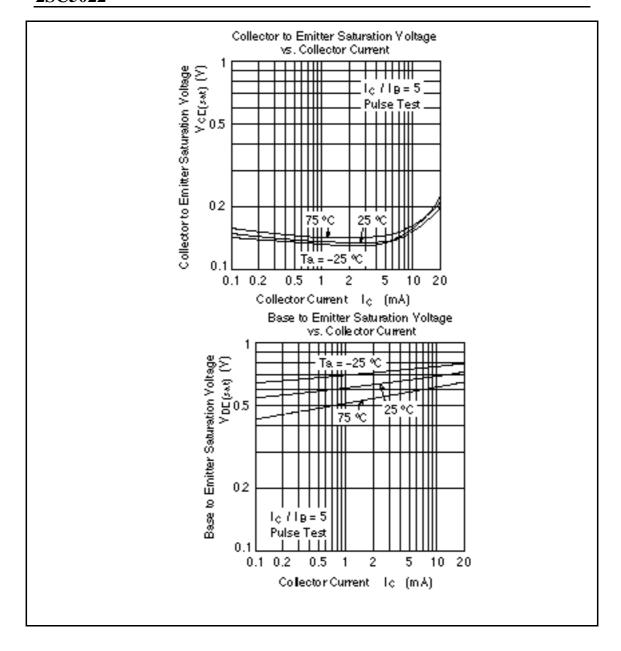
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	1500	V
Collector to emitter voltage	V _{CEO}	1500	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I _c	20	mA
Collector peak current	I _{C (peak)}	40	mA
Collector power dissipation	P _c	2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

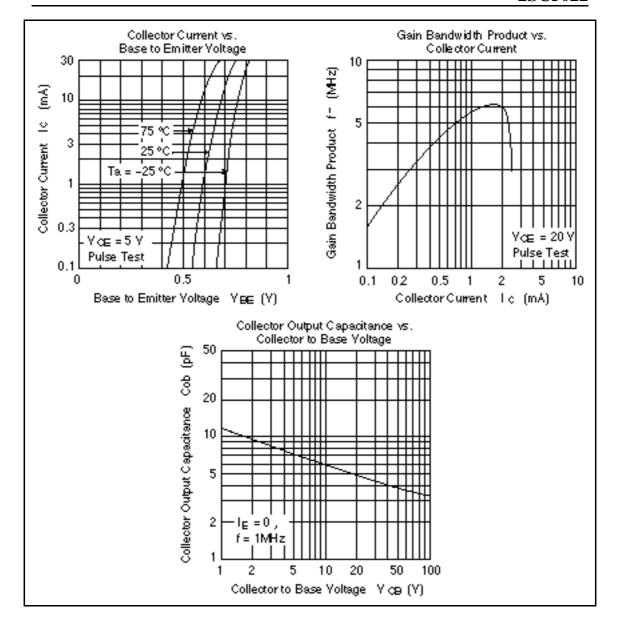
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector cutoff current	I _{CES}	_	_	10	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} = 0$
Collector cutoff current	I _{CEO}	_	_	100	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} =$
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE}	10	_	_		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ mA}$
Collector to emitter saturation voltage	V _{CE (sat)}	_	_	5.0	V	$I_{\rm C} = 10 \text{ mA}, I_{\rm B} = 2 \text{ mA}$



2SC5022





When using this document, keep the following in mind:

- 1. This document may, wholly or partially, be subject to change without notice.
- 2. All rights are reserved: No one is permitted to reproduce or duplicate, in any form, the whole or part of this document without Hitachi's permission.
- 3. Hitachi will not be held responsible for any damage to the user that may result from accidents or any other reasons during operation of the user's unit according to this document.
- 4. Circuitry and other examples described herein are meant merely to indicate the characteristics and performance of Hitachi's semiconductor products. Hitachi assumes no responsibility for any intellectual property claims or other problems that may result from applications based on the examples described herein.
- 5. No license is granted by implication or otherwise under any patents or other rights of any third party or Hitachi, Ltd.
- 6. MEDICAL APPLICATIONS: Hitachi's products are not authorized for use in MEDICAL APPLICATIONS without the written consent of the appropriate officer of Hitachi's sales company. Such use includes, but is not limited to, use in life support systems. Buyers of Hitachi's products are requested to notify the relevant Hitachi sales offices when planning to use the products in MEDICAL APPLICATIONS.

HITACHI

Hitachi, Ltd.
Semiconductor & IC Div.
Nippon 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:

Hitechi Americe, Ltd. Semiconductor & IC Div. 2000 Sierre Point Perkwey Briebane, CA. 94005-4835 U.S.A. Th. A.E. DOCCOOK

Tet 415-589-8300 Fex: 415-583-4207 Hitschi Burope GmbH
Bectronic Components Group
Continental Burope
Dornscher Streiße 3
D-85622 Feldkirchen
München
Tet 089-9 94 80-0
Fex 089-9 20 30 00

Hitechi Burope Ltd.
Bedronic Componente Div.
Northern Burope Headquartere
Whitebrook Ferk
Lower Cook hem Road
Maidenhead
Berkehire SL68YA
Urited Kingdom
Tet 0628-585000
Fex: 0628-778322

Hischi Asie Pte. Ltd 45 Collyer Quey #20-00 Hischi Tower Snappore 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