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# 2SC5480

Silicon NPN Triple Diffused  
Horizontal Deflection Output

# HITACHI

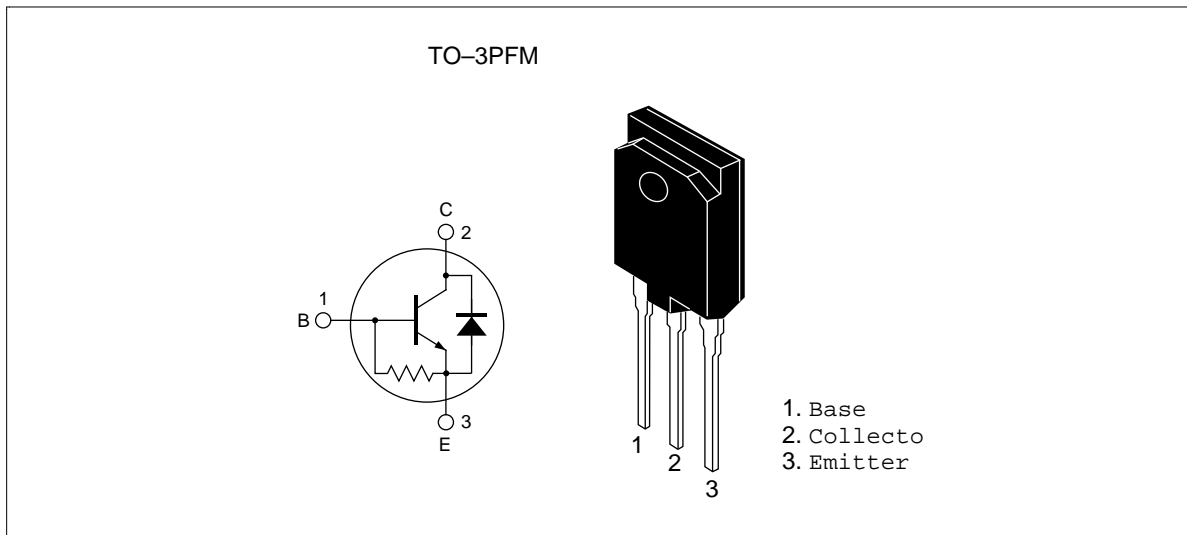
ADE-208-632 (Z)  
1st. Edition  
Oct. 1, 1998

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## Features

- High breakdown voltage  
 $V_{CES} = 1500 \text{ V}$
- Isolated package  
TO-3PFM
- Built-in damper diode

## Outline



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## 2SC5480

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### Absolute Maximum Ratings (Ta = 25°C)

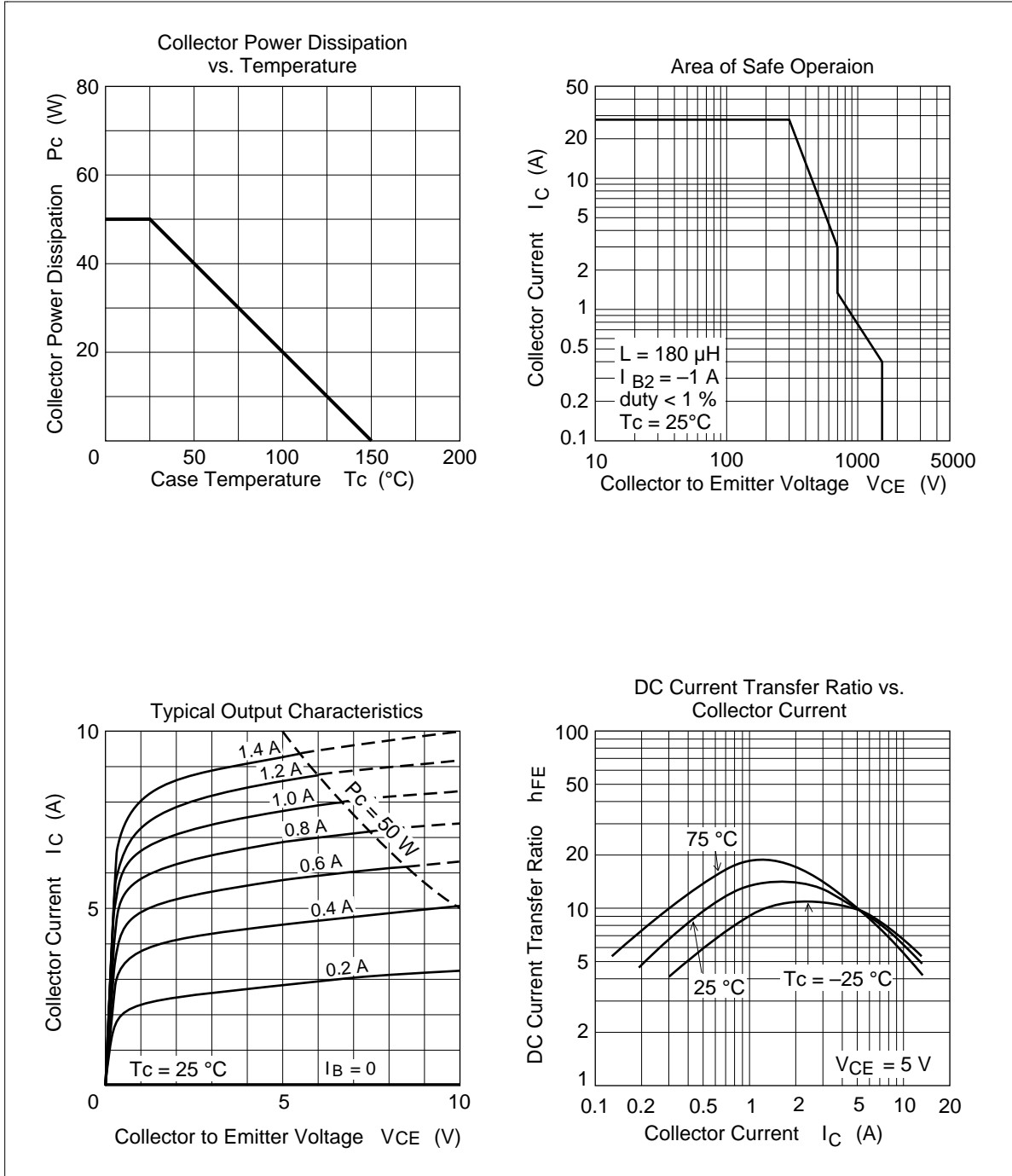
Item	Symbol	Ratings	Unit
Collector to emitter voltage	$V_{CES}$	1500	V
Emitter to base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	14	A
Collector peak current	$i_{c(peak)}$	28	A
Collector power dissipation	$P_C$ <sup>Note1</sup>	50	W
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C
Collector to emitter diode forward current	$I_D$	14	A

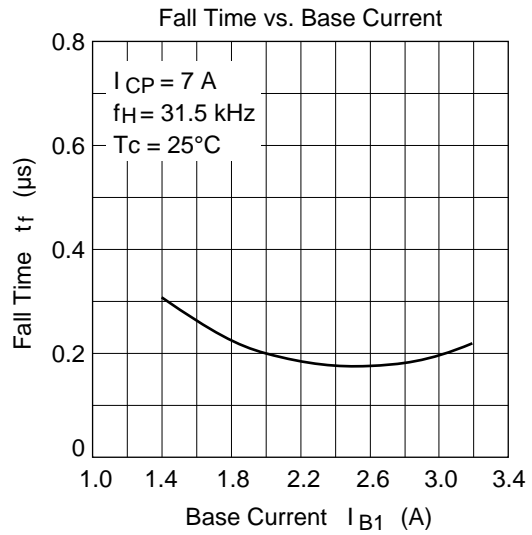
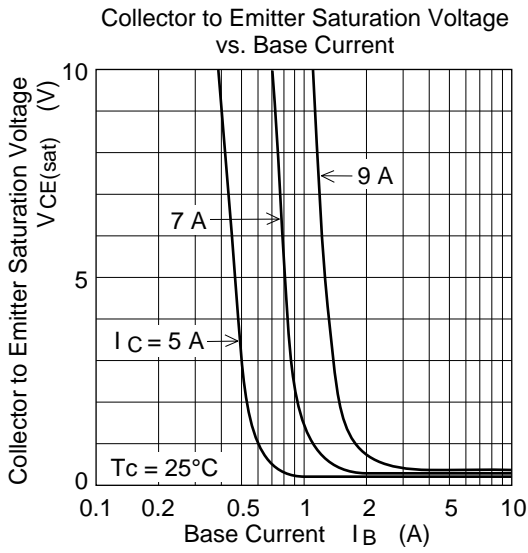
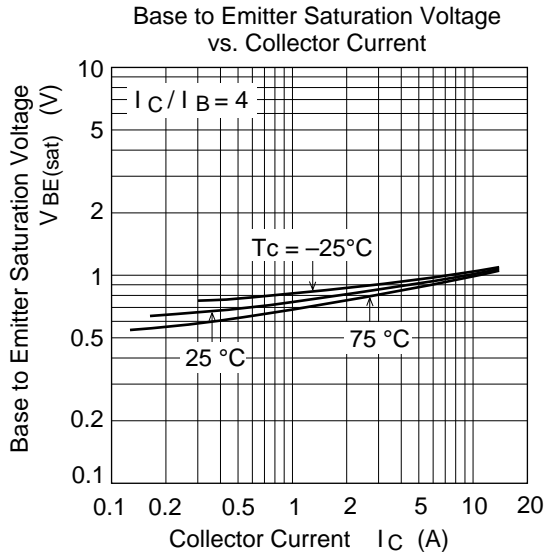
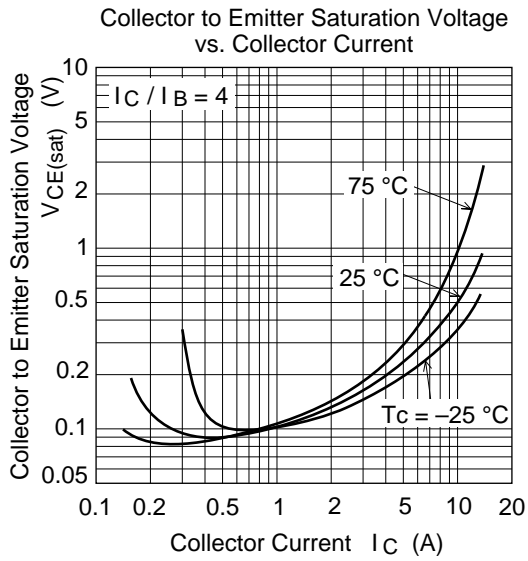
Note: 1. Value at  $T_C = 25^\circ\text{C}$

### Electrical Characteristics (Ta = 25°C)

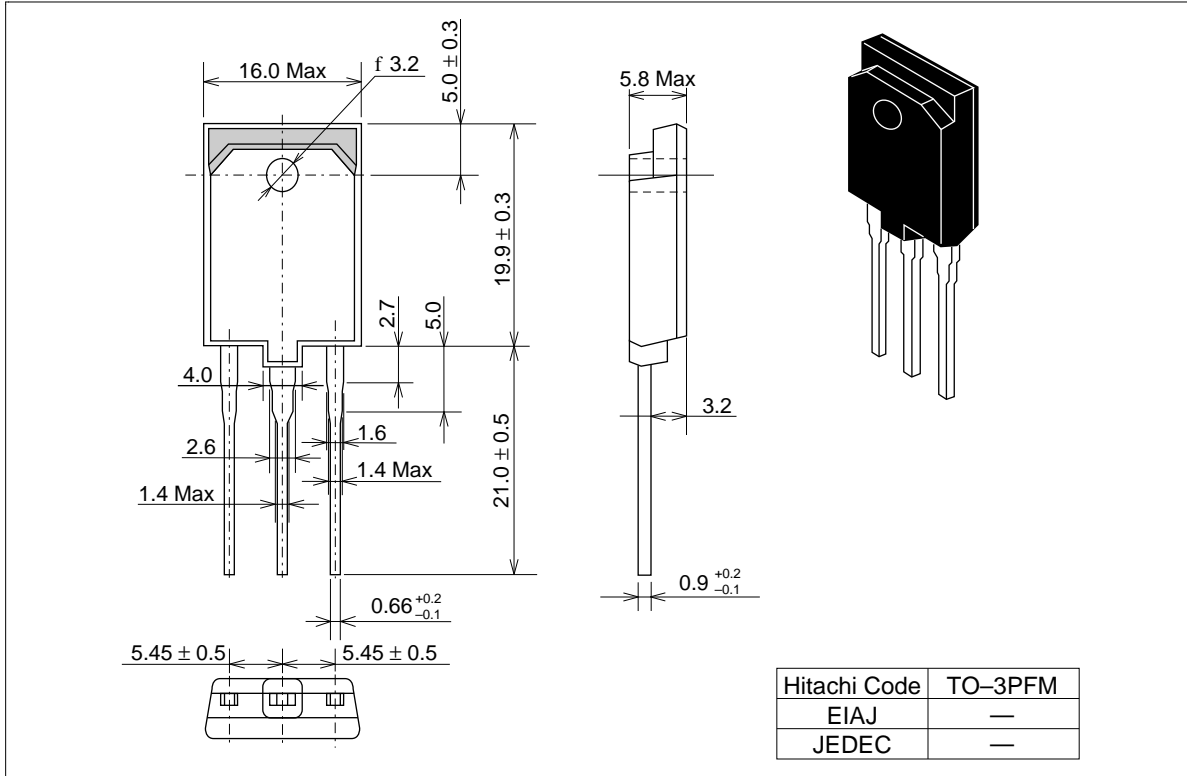
Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	—	—	V	$I_E = 500\text{mA}$ , $I_C = 0$
Collector cutoff current	$I_{CES}$	—	—	500	$\mu\text{A}$	$V_{CE} = 1500\text{V}$ , $R_{BE} = 0$
DC current transfer ratio	$h_{FE1}$	5	—	25		$V_{CE} = 5\text{V}$ , $I_C = 1\text{A}$
DC current transfer ratio	$h_{FE2}$	4	—	7		$V_{CE} = 5\text{V}$ , $I_C = 10\text{A}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5	V	$I_C = 10\text{A}$ , $I_B = 2.5\text{A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	$I_C = 10\text{A}$ , $I_B = 2.5\text{A}$
Collector to emitter diode forward voltage	$V_{ECF}$	—	—	2	V	$I_F = 14\text{A}$
Fall time	$t_f$	—	0.2	0.4	$\mu\text{s}$	$I_{CP} = 7\text{A}$ , $I_{B1} = 2.4\text{A}$ $f_H = 31.5\text{kHz}$

Main Characteristics





Package Dimensions (Unit: mm)



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# HITACHI

**Hitachi, Ltd.**

Semiconductor & IC Div.  
Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan  
Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

URL      North America      : <http://semiconductor.hitachi.com/>  
             Europe                : <http://www.hitachi-eu.com/hel/ecg>  
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**For further information write to:**

Hitachi Semiconductor  
(America) Inc.  
2000 Sierra Point Parkway  
Brisbane, CA 94005-1897  
Tel: <1> (800) 285-1601  
Fax: <1> (303) 297-0447

Hitachi Europe GmbH  
Electronic components Group  
Dornacher Straße 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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