### 2SC5469

Silicon NPN Triple Diffused Character Display Horizntal Deflection Output

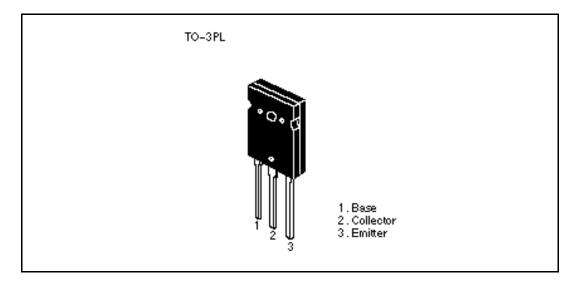
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3rd. Edition December 1997 Target Specification

#### Features

- High breakdown voltage  $V_{CBO} = 1500 \text{ V}$
- High speed switching  $t_{f}=0.15\;\mu sec\;(typ.)\;\;at\;f_{H}=64kHz$

#### Outline





#### 2SC5469

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

Item	Symbol	Ratings	Unit	
Collector to base voltage	V <sub>CBO</sub>	1500	V	
Collector to emitter voltage	V <sub>CEO</sub>	700	V	
Emitter to base voltage	V <sub>EBO</sub>	6	V	
Collector current	Ι <sub>c</sub>	15	А	
Collector peak current	İ <sub>c(peak)</sub>	30	А	
Collector power dissipation	P <sub>C</sub> <sup>Note1</sup>	125	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

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

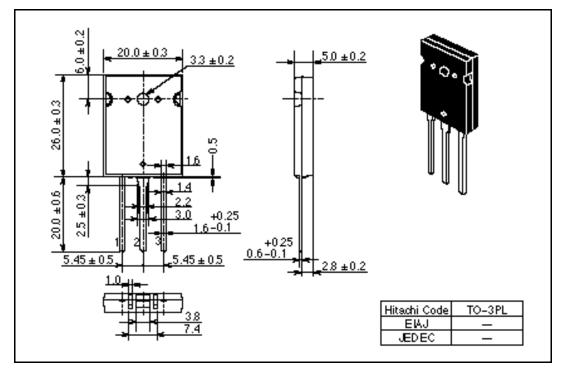
#### **Electrical Characteristics** (Ta = 25°C)

Item	Symbol	Min	Тур	Мах	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CEO}$	700	—	—	V	$I_c = 10mA$ , $R_{BE} =$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	6	—	—	V	$I_{\rm E} = 10$ mA, $I_{\rm C} = 0$
Collector cutoff current	I <sub>CES</sub>	_	_	500	μA	$V_{ce} = 1500V, R_{be} = 0$
DC current transfer ratio	$h_{\text{FE1}}$	10	_	40		$V_{ce} = 5 \text{ V}, I_c = 1 \text{A}$
DC current transfer ratio	$h_{\text{FE2}}$	3.5	_	6.5		$V_{ce} = 5 \text{ V}, I_c = 8 \text{A}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	—	5	V	$I_{\rm C} = 10A, I_{\rm B} = 3A$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	—	1.5	V	$I_{\rm C} = 10$ A, $I_{\rm B} = 3$ A
Fall time	t <sub>f</sub>	_	0.2	0.4	μs	I <sub>CP</sub> = 7A, I <sub>B1</sub> = 2.8A f <sub>H</sub> = 31.5kHz
Fall time	t <sub>f</sub>	_	0.15	_	μs	I <sub>CP</sub> = 7A, I <sub>B1</sub> = 1.8A f <sub>H</sub> = 64kHz

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#### **Package Dimensions**





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Hitachi, Ltd. Semiconductor & IC DW. Nippon Bidg, 26-2; Ohte-machi, Chiyoda-ku, Tokyo 100, Japan Tat Tokyo (03, 3210-2014) Fax (103, 3210-5109

For Jurther in Iorma Ion write Io: Hitschi America, Ud Semicondudor A IC Div. 2000 Sierra Point Parlway Brisbana, CA. 94005-4835 U S.A Tat 445-589-8300 Fax: 445-583-4207

Hitschi Burope GmbH Bectronic Components Group Carbinertel Burope Danscher Stelle 3 Dass532 Feldkirchen Nünchen Tet 033-9 94 50.0 Felt: 033-9 29 30 00 Hitschi Burope Ltd. Bectronic Components Div. Northern Burope Heedquerters Whitsbrock Perk Lower Cookhem Roed Neiderheed Berkshire SL6SYA United Kingdom Tet 0625-55500 Fet: 0625-778322 Hitschi Asia Pte, Ltd +5 Collyer Quay \$20-00 Hitschi Tower Snappore 0104 Tet 535-2100 Fex 535-1533

Hitachi Asia (Hong Kong) Ltd. Unit 705, North Tower, World Finance Centre Harbour Oity, Carton Road Taim Sha Tou, Kowloon Hang Kong Tat 27359218 Fax: 27395971

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