# 2SC2611

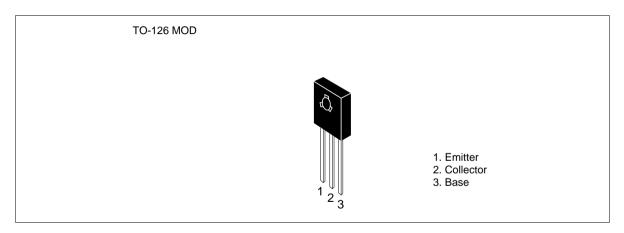
## Silicon NPN Triple Diffused

# **HITACHI**

### **Application**

High voltage amplifier TV VIDEO output

#### Outline



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

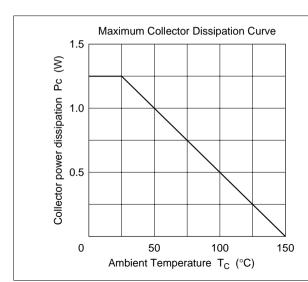
Item	Symbol	Ratings	Unit	
Collector to base voltage	$V_{\text{CBO}}$	300	V	
Collector to emitter voltage	V <sub>CEO</sub>	300	V	
Emitter to base voltage	$V_{EBO}$	5	V	
Collector current	I <sub>c</sub>	100	mA	
Collector power dissipation	P <sub>c</sub>	1.25	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

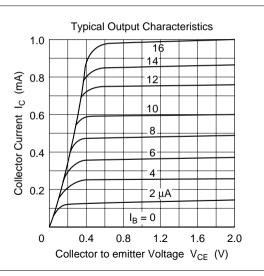


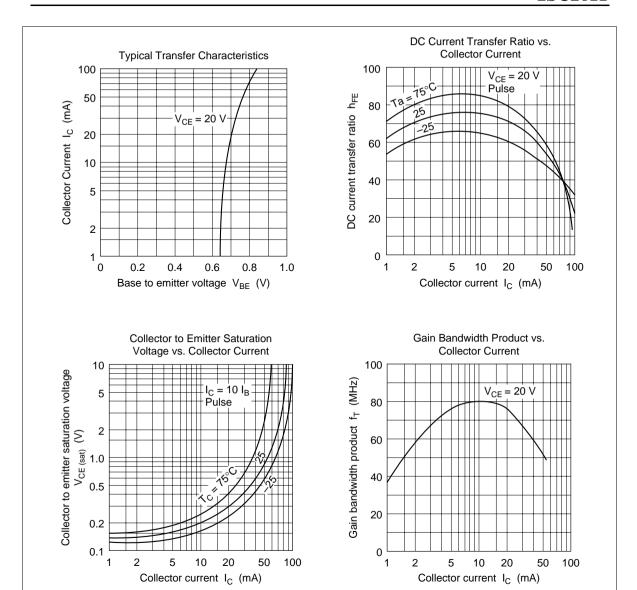
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### **Electrical Characteristics** ( $Ta = 25^{\circ}C$ )

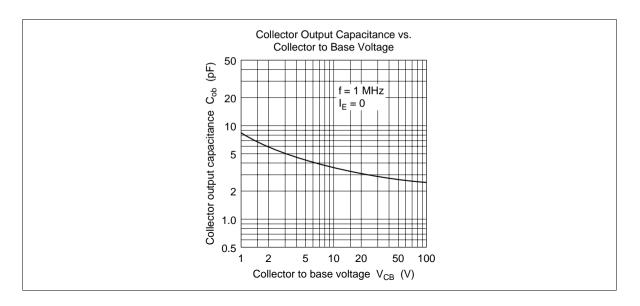
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	300	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	300	_	_	V	$I_{C}$ = 1 mA, $R_{BE}$ = $\infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I <sub>CEO</sub>	_	_	1.0	μΑ	V <sub>CE</sub> = 250 V, R <sub>BE</sub> = ∞
DC current transfer ratio	$h_{FE}$	30	_	200		$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.5	V	I <sub>C</sub> = 20 mA, I <sub>B</sub> = 2 mA
Gain bandwidth product	f <sub>T</sub>	50	80	_	MHz	$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector output capacitance	Cob	_	_	4.0	pF	$V_{CB} = 20 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$



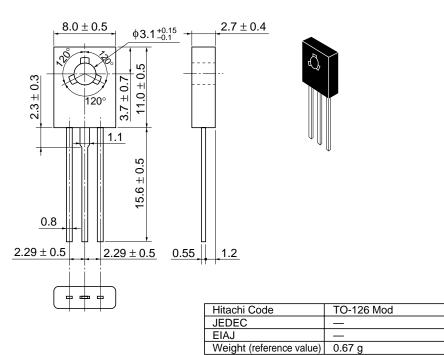




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Unit: mm



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#### Hitachi, Ltd.

Semiconductor & Integrated Circuits.

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

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#### 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 Hitachi Europe GmbH 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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