# 2SC2611

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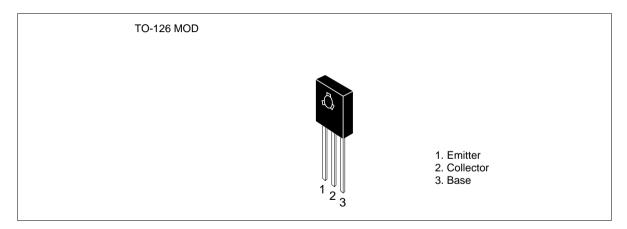
# Silicon NPN Triple Diffused

# **HITACHI**

### **Application**

High voltage amplifier TV VIDEO output

#### Outline



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

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	

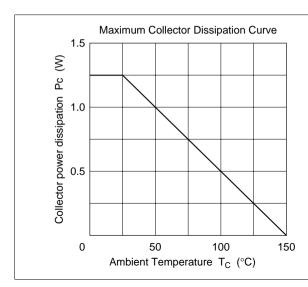


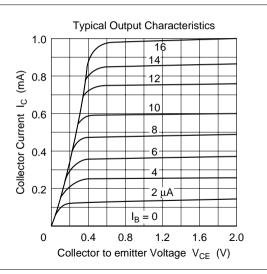
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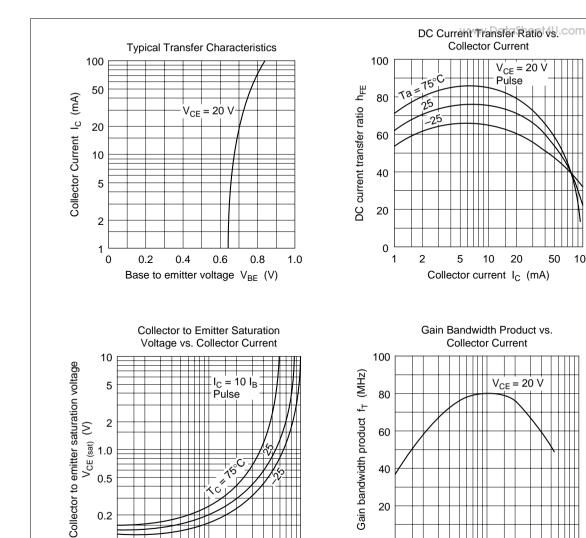
### **Electrical Characteristics** (Ta = 25°C)

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Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	300	_	_	V	$I_{\rm C} = 10 \; \mu A, \; I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	300	_	_	V	$I_{\rm C}$ = 1 mA, $R_{\rm BE}$ = $\infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{E} = 10 \mu\text{A},  I_{C} = 0$
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 <sub>FE</sub>	30	_	200		$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.5	V	$I_{\rm C}$ = 20 mA, $I_{\rm B}$ = 2 mA
Gain bandwidth product	f⊤	50	80	_	MHz	$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector output capacitance	Cob	_	_	4.0	pF	$V_{CB} = 20 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$







1.0

0.5

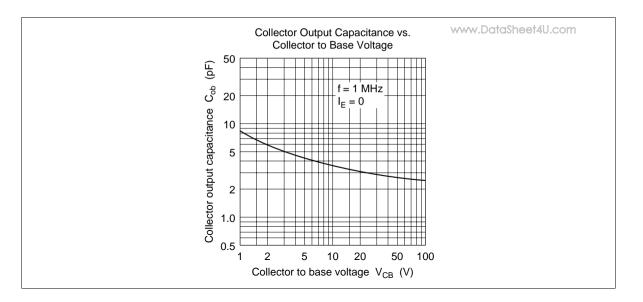
0.2

0.1

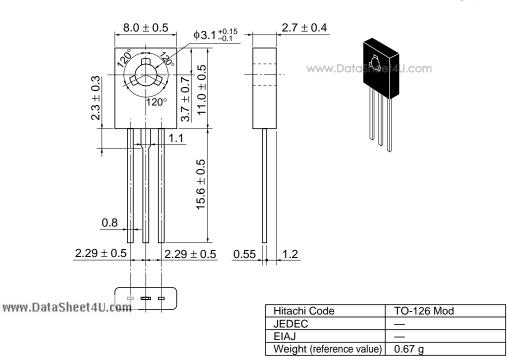
Collector current I<sub>C</sub> (mA)

Collector current I<sub>C</sub> (mA)

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Unit: mm



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