2SC2611

Silicon NPN Triple Diffused

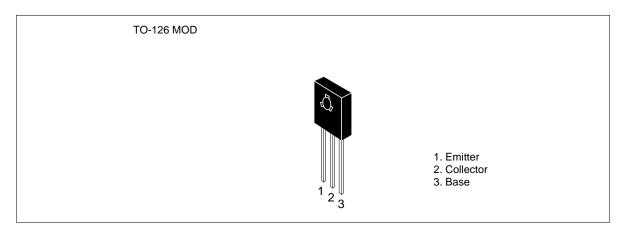
HITACHI

ADE-208-884 (Z) 1st. Edition Sep. 2000

Application

High voltage amplifier TV VIDEO output

Outline



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

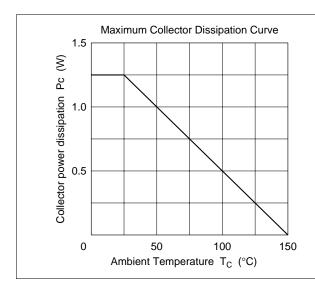
Item	Symbol	Ratings	Unit		
Collector to base voltage	V_{CBO}	300	V		
Collector to emitter voltage	V_{CEO}	300	V		
Emitter to base voltage	V_{EBO}	5	V		
Collector current	I _c	100	mA		
Collector power dissipation	P _c	1.25	W		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		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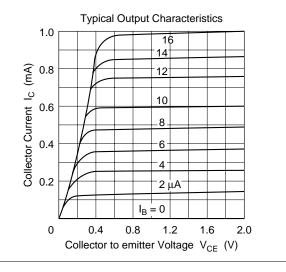


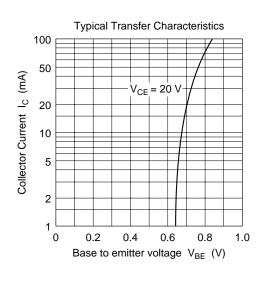
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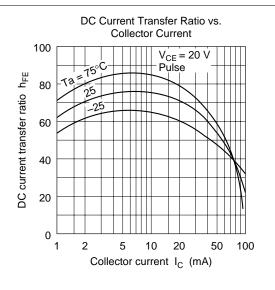
Electrical Characteristics (Ta = 25°C)

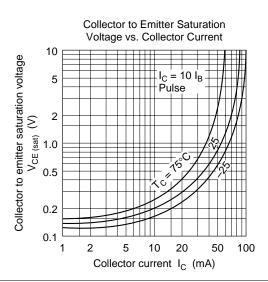
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	300	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	300	_	_	V	I_{C} = 1 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{E} = 10 \mu A, I_{C} = 0$
Collector cutoff current	I _{CEO}	_	_	1.0	μΑ	$V_{CE} = 250 \text{ V}, R_{BE} = \infty$
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	$I_{\rm C}$ = 20 mA, $I_{\rm B}$ = 2 mA
Gain bandwidth product	f _T	50	80	_	MHz	$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector output capacitance	Cob	_	_	4.0	pF	$V_{CB} = 20 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

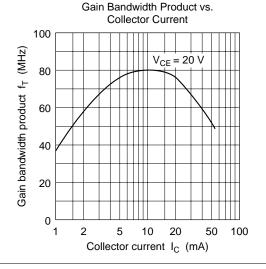




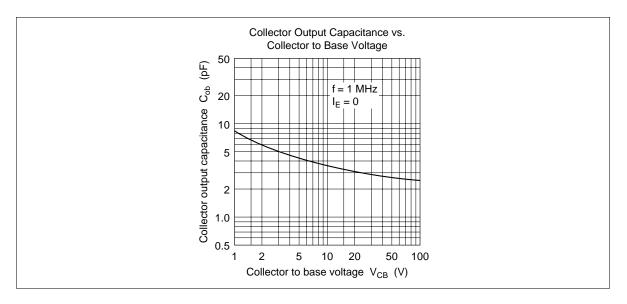




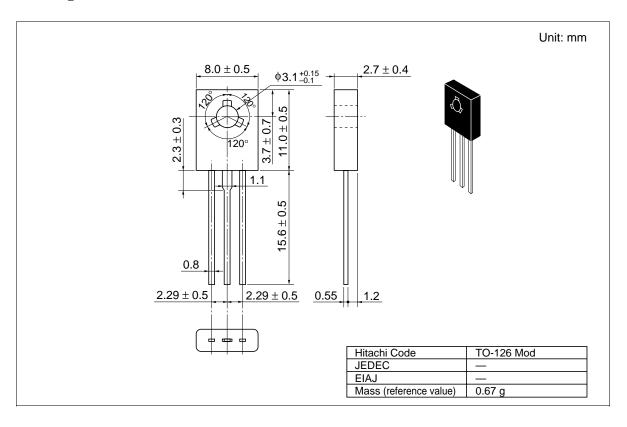




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Package Dimensions



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