2SC1162

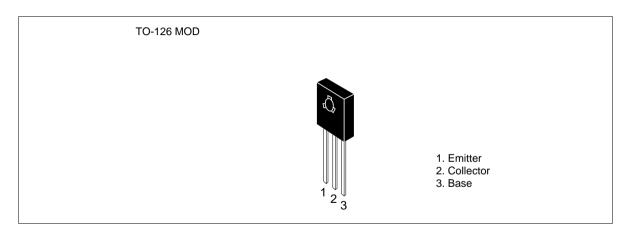
Silicon NPN Epitaxial

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Application

Low frequency power amplifier complementary pair with 2SA715

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	35	V
Collector to emitter voltage	V _{CEO}	35	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	I _c	2.5	A
Collector peak current	I _{C(peak)}	3	A
Collector power dissipation	P _c	0.75	W
	P _c * ¹	10	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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



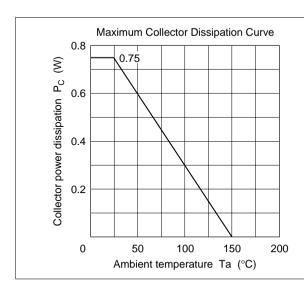
2SC1162

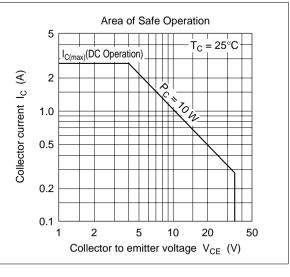
Electrical Characteristics (Ta = 25°C)

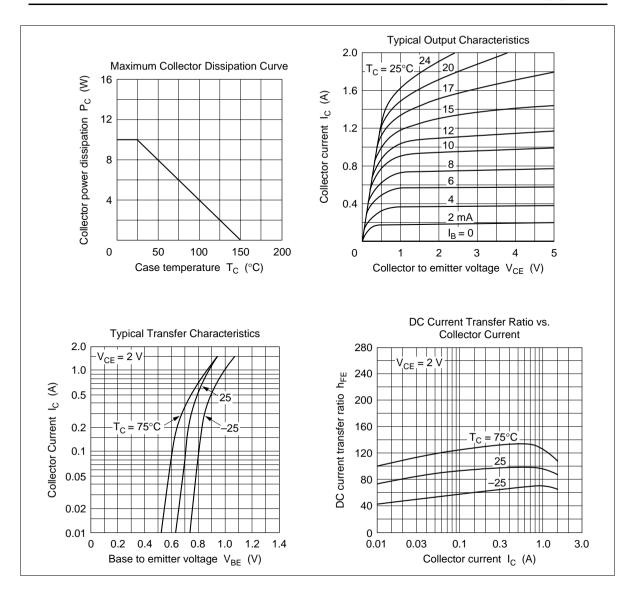
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	35	_	_	V	$I_{c} = 1 \text{ mA}, I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	35	_	_	V	I_{C} = 10 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{E} = 1 \text{ mA}, I_{C} = 0$
Collector cutoff current	I _{CBO}	_	_	20	μΑ	$V_{CB} = 35 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE} *1	60	_	320		$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}$
	h_{FE}	20	_	_		$V_{CE} = 2 \text{ V}, I_{C} = 1.5 \text{ A}$ (pulse test)
Base to emitter voltage	V_{BE}	_	0.93	1.5	V	$V_{CE} = 2 \text{ V}, I_{C} = 1.5 \text{ A}$ (pulse test)
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	0.5	1.0	V	$I_C = 2 \text{ A}, I_B = 0.2 \text{ A (pulse test)}$
Gain bandwidth product	f _T	_	180	_	MHz	$V_{CE} = 2 \text{ V}, I_{C} = 0.2 \text{ A}$

Note: 1. The 2SC1162 is grouped by h_{FE} as follows.

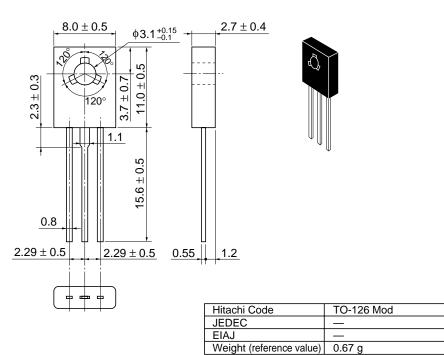
В	С	D
60 to 120	100 to 200	160 to 320







Unit: mm



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