2SD1101

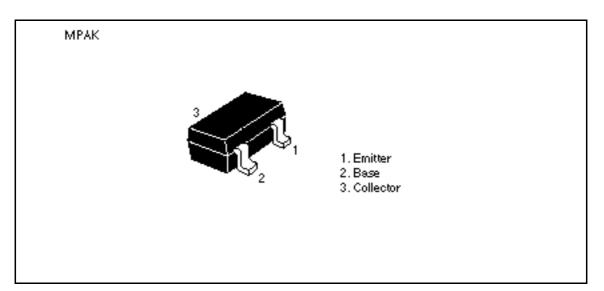
Silicon NPN Epitaxial

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Application

- Low frequency amplifier
- Complementary pair with 2SB831

Outline



Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	25	V
Collector to emitter voltage	V _{CEO}	20	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	I _c	0.7	А
Collector peak current	İ _{C(peak)}	1	А
Collector power dissipation	P _c	150	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	–55 to +150	°C



2SD1101

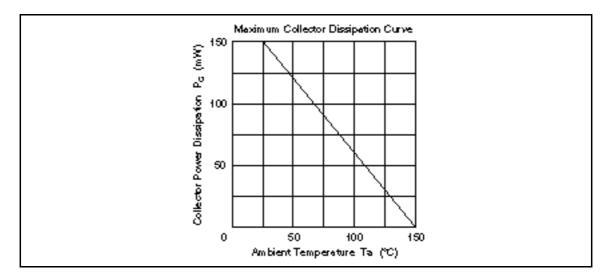
Electrical Characteristics (Ta = 25° C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	25	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	20	_	_	V	$I_c = 1 \text{ mA}, \text{ R}_{BE} =$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	5	_	_	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	1.0	μA	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h_{FE}^{*1}	85	_	240		V_{ce} = 1 V, I_c = 0.15 A ^{*2}
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	0.5	V	$I_{c} = 0.5 \text{ A}, I_{B} = 0.05 \text{ A}^{*2}$
Base to emitter voltage	V_{BE}			1.0	V	$V_{ce} = 1 \text{ V}, \text{ I}_{c} = 0.15 \text{ A}^{*2}$
Notes: 1. The 2SD1101 is grouped by h _{FE} as follows.						
2. Pulse test						
Grade B C						

 Mark
 AB
 AC

 h_{FE}
 85 to 170
 120 to 240

See characteristic curves of 2SD467.



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