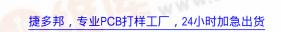


itac

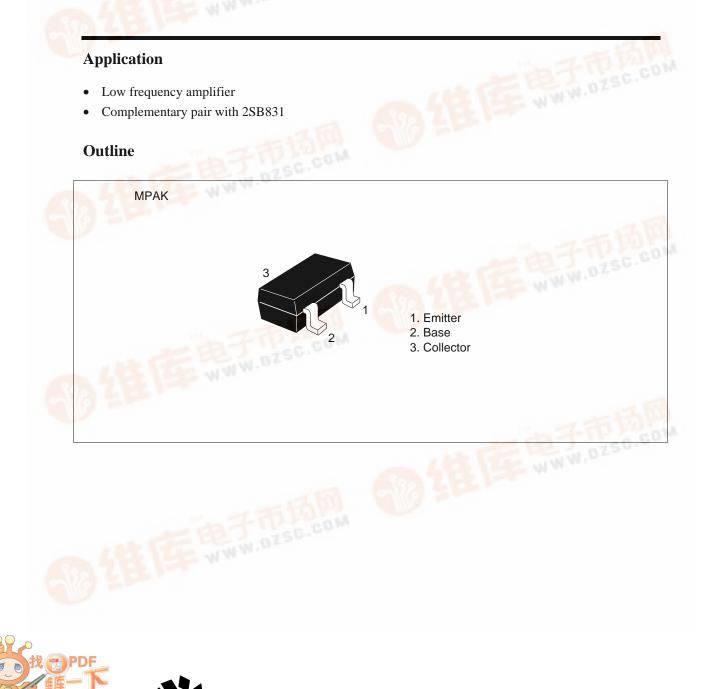


# 2SD1101

Silicon NPN Epitaxial







### 2SD1101

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	25	V
Collector to emitter voltage	V <sub>CEO</sub>	20	V
Emitter to base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>c</sub>	0.7	А
Collector peak current	İ <sub>C(peak)</sub>	1	А
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	٥C

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

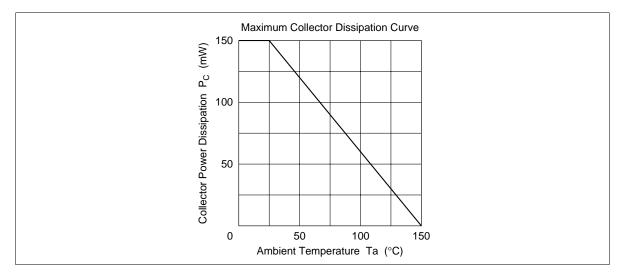
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{\rm (BR)CBO}$	25	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{\rm (BR)CEO}$	20	_	_	V	$I_c = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$
Collector cutoff current	I <sub>CBO</sub>		—	1.0	μΑ	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	$h_{FE}^{*1}$	85	—	240		$V_{ce} = 1 \text{ V}, I_c = 0.15 \text{ A}^{*2}$
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 gro 2. Pulse test	ouped by h	<sub>FE</sub> as fol	lows.			

۷.		
Grade	В	С
Mark	AB	AC
h <sub>FE</sub>	85 to 170	120 to 240

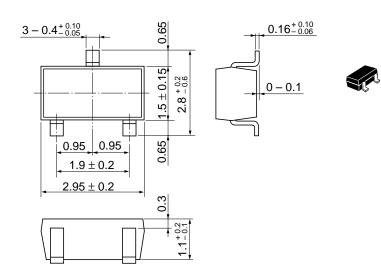
See characteristic curves of 2SD467.

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## 2SD1101



Unit: mm



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