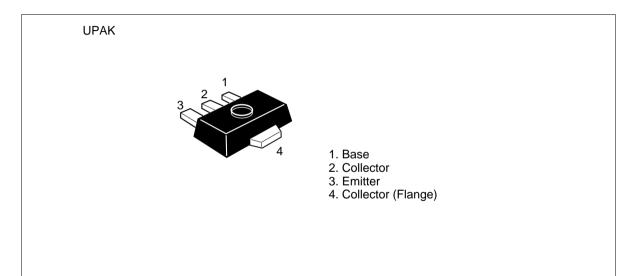
Silicon PNP Epitaxial

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Application

Low frequency power amplifier

Outline





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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	-180	V
Collector to emitter voltage	V _{CEO}	-160	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	Ι _c	-1.5	А
Collector peak current	i _{C(peak)} *1	-3	А
Collector power dissipation	Pc*2	1	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

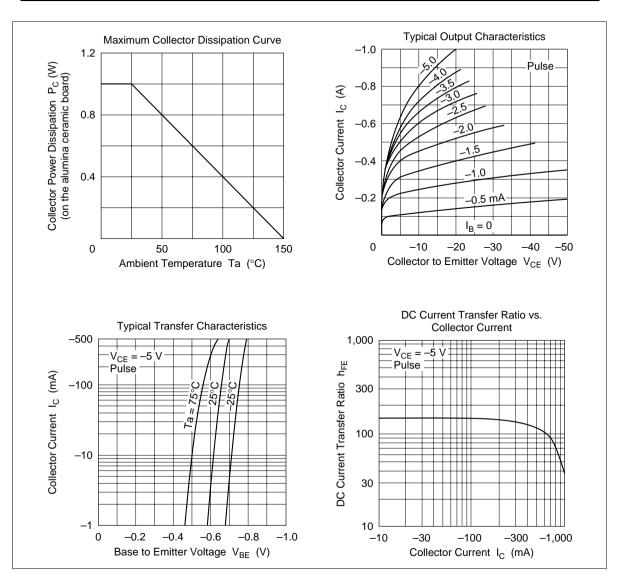
Notes: 1. $PW \le 10 \text{ ms}$, Duty cycle $\le 20\%$

2. Value on the alumina ceramic board ($12.5 \times 20 \times 0.7$ mm)

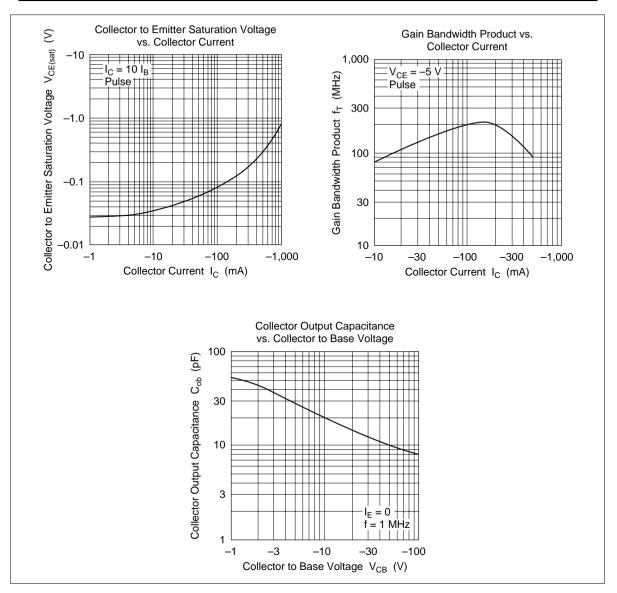
Electrical Characteristics (Ta = 25°C)

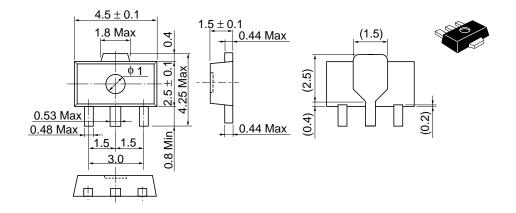
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	-180	_	_	V	$I_{c} = -1 \text{ mA}, I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-160	_	_	V	$I_c = -10$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-5	—	—	V	$I_{\rm E} = -1 {\rm mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	-10	μΑ	$V_{CB} = -160 \text{ V}, I_{E} = 0$
DC current transfer ratio	h_{FE1}^{*1}	60	—	200		$V_{ce} = -5 \text{ V}, \text{ I}_c = -0.15 \text{ A},$ pulse
	h _{FE2}	30	—	—		$V_{ce} = -5 \text{ V}, \text{ I}_c = -0.5 \text{ A},$ pulse
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	—	-1.0	V	$I_{\rm C}$ = -0.5 A, $I_{\rm B}$ = -50 mA, Pulse
Base to emitter voltage	V_{BE}	—	_	-0.9	V	$V_{ce} = -5 \text{ V}, \text{ I}_c = -0.15 \text{ A},$ pulse
Note: 1. The 2SB1028 is gro	uped by h _{FE}	E1 as follo	ows.			
Mark EL EN	Λ					

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Hitachi Code	UPAK
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.050 g

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