2SA1122

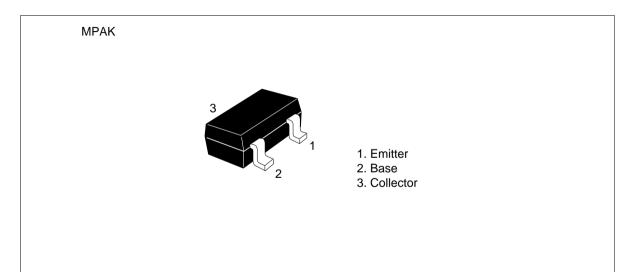
Silicon PNP Epitaxial

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Application

Low frequency amplifier

Outline





2SA1122

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

Item	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	-55	V	
Collector to emitter voltage	V _{CEO}	-55	V	
Emitter to base voltage	V _{EBO}	-5	V	
Collector current	Ι _c	-100	mA	
Collector power dissipation	Pc	150	mW	
Junction temperature	Тј	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

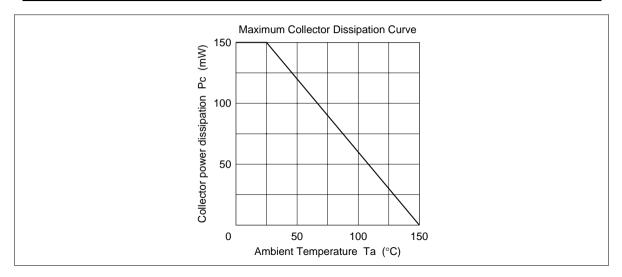
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions	
Collector to base breakdown voltage	$V_{\rm (BR)CBO}$	-55	_	_	V	$I_{c} = -10 \ \mu A, \ I_{E} = 0$	
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-55	_	_	V	$I_c = -1 \text{ mA}, \text{ R}_{\text{BE}} = \infty$	
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-5	—	—	V	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	
Collector cutoff current	I _{CBO}	_	_	-0.5	μΑ	$V_{cb} = -30 \text{ V}, \text{ I}_{E} = 0$	
Emitter cutoff current	I _{EBO}	_	_	-0.5	μΑ	$V_{EB} = -2 V, I_{C} = 0$	
DC current transfer ratio	h _{FE} *1	160	—	800		$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$	
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	-0.5	V	$I_{c} = -10 \text{ mA}, I_{B} = -1 \text{ mA}$	
Base to emitter voltage	V_{BE}	_	_	-0.75	V	$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$	
Note: 1. The 2SA1122 is grouped by h _{FE} as follows.							
Grade B C		D					
Mark CC C	D	CE					
h _{FE} 160 to 320 25	50 to 500	400 to	800				

See characteristic curves of 2SA836.

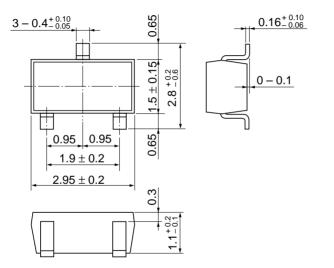
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2SA1122



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Unit: mm



Hitachi Code	MPAK
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.011 g

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