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Silicon PNP Epitaxial

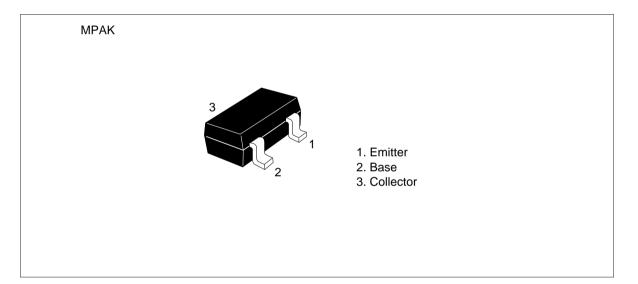


ADE-208-1018 (Z) 1st. Edition Mar. 2001

Application

High voltage 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}	-180	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	I _c	-100	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

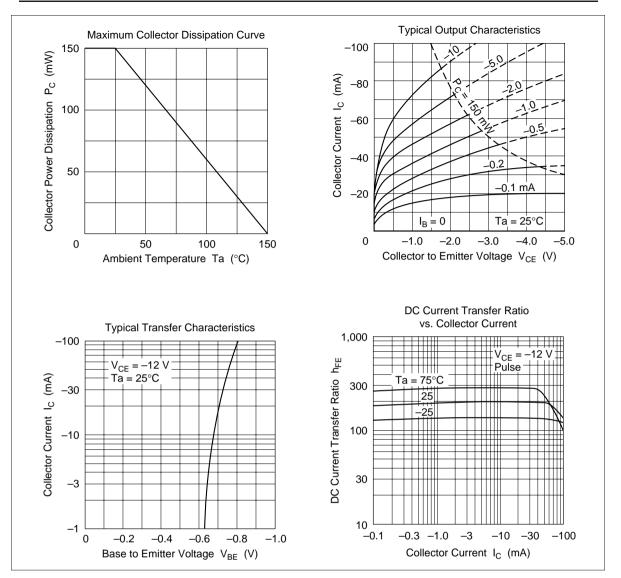
Electrical Characteristics (Ta = 25°C)

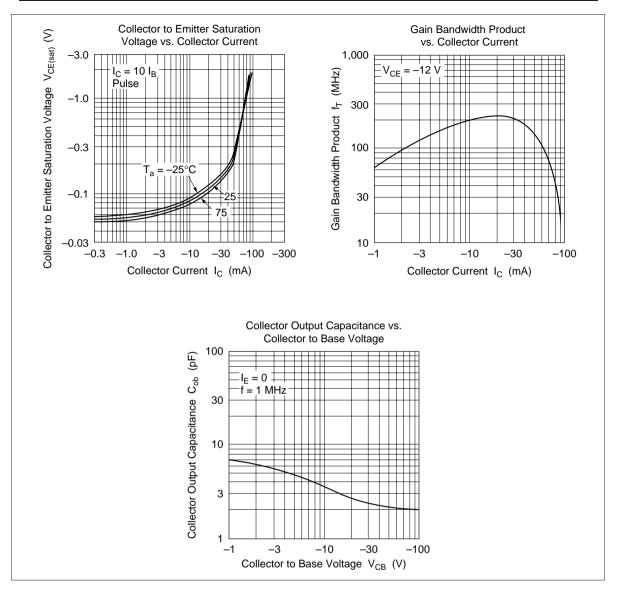
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{\rm (BR)CBO}$	-180	_	_	V	$I_{c} = -10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-180	—	_	V	I_{c} = -0.5 mA, $R_{\scriptscriptstyle BE}$ = ∞
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	-5	—	—	V	$I_{E} = -10 \ \mu A, \ I_{C} = 0$
DC current transfer ratio	h_{FE}^{*1}	100	_	320		$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	_	-0.5	V	$I_{c} = -30 \text{ mA}, I_{B} = -3 \text{ mA}^{*2}$
Base to emitter voltage	V_{BE}		—	-1.0	V	$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$
Gain bandwidth product	f _T	_	200	_	MHz	$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -10 \text{ mA}$
Collector output capacitance	Cob	—	3.5	_	pF	$V_{_{CB}} = -10 \text{ V}, \text{ I}_{_{E}} = 0, \text{ f} = 1 \text{ MHz}$
Notes: 1 The 2SA1468 is around by h as follows						

Notes: 1. The 2SA1468 is grouped by h_{FE} as follows.

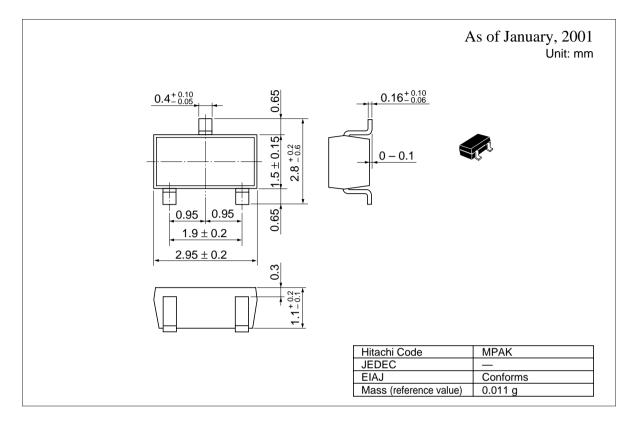
2. Pulse test

Grade	В	С
Mark	INB	INC
h _{FE}	100 to 200	160 to 320





Package Dimensions



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