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2SC4308

Silicon NPN Epitaxial Planar

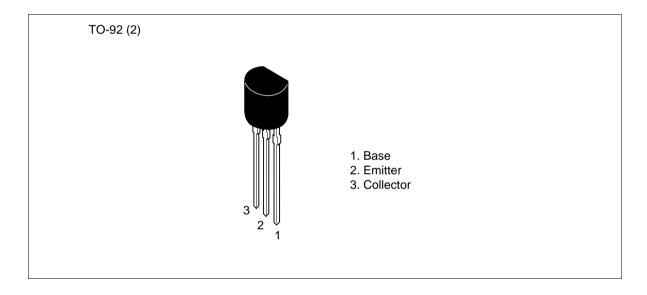


ADE-208-1103 (Z) 1st. Edition Mar. 2001

Application

VHF Wide band amplifier

Outline



2SC4308

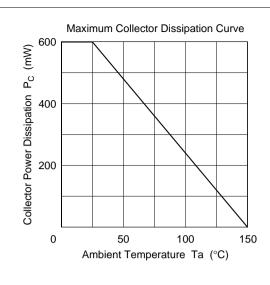
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

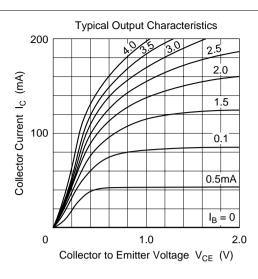
Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	30	V	
Collector to emitter voltage	V_{CEO}	20	V	
Emitter to base voltage	V_{EBO}	3	V	
Collector current	I _c	300	mA	
Collector peak current	i _{C (peak)}	500	mA	
Collector power dissipation	P _c	600	mW	
Junction temperature	Тј	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

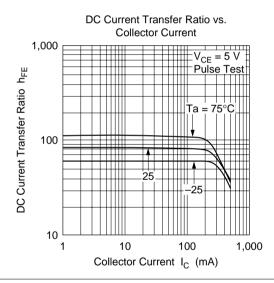
Electrical Characteristics ($Ta = 25^{\circ}C$)

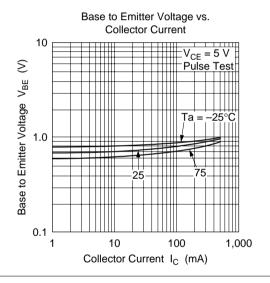
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	30	_	_	V	$I_{\rm C} = 100 \ \mu {\rm A}, \ I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	20	_	_	V	$I_{C} = 1 \text{ mA}, R_{BE} =$
Collector cutoff current	I _{CBO}	_	_	1	μA	V _{CB} = 25 V, I _E = 0
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 3 \text{ V}, I_{E} = 0$
DC current transfer ratio	h_{FE}	50	_	200		$V_{CE} = 5 \text{ V}, I_{C} = 50 \text{ mA}$
Gain bandwidth product	f_T	1.5	2.5	_	GHz	$V_{CE} = 5 \text{ V}, I_{C} = 50 \text{ mA}$
Collector output capacitance	Cob	_	4.0	_	pF	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$



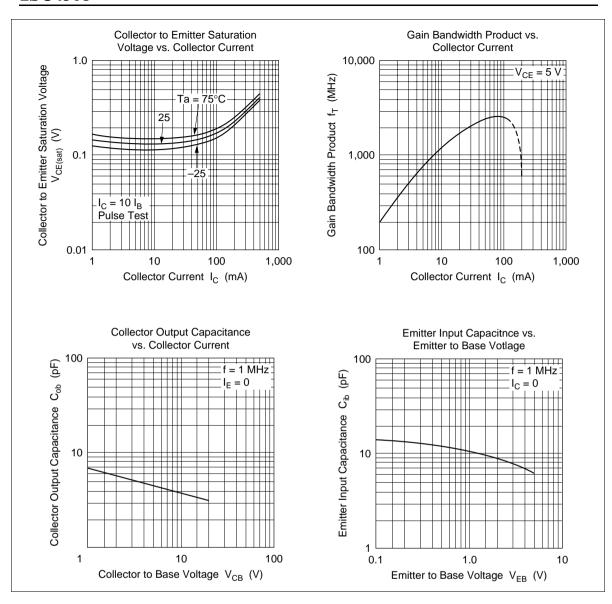




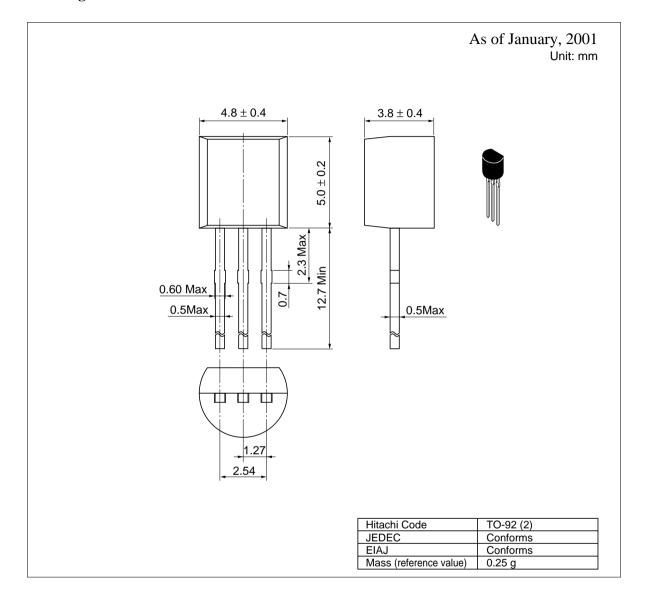




2SC4308



Package Dimensions



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