2SC4629

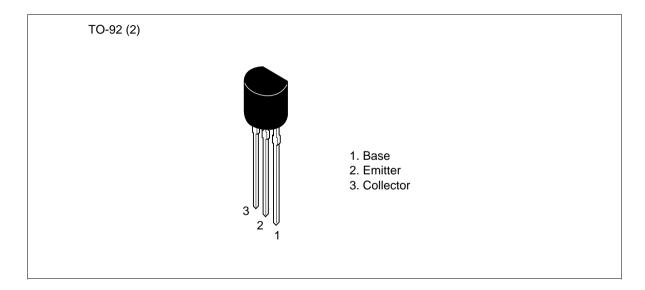
Silicon NPN Epitaxial

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Application

UHF / VHF wide band amplifier

Outline





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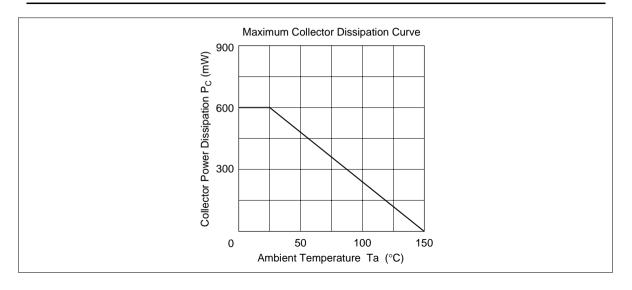
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	15	V
Collector to emitter voltage	V_{CEO}	9	V
Emitter to base voltage	V_{EBO}	1.5	V
Collector current	I _c	50	mA
Collector power dissipation	P _c	600	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

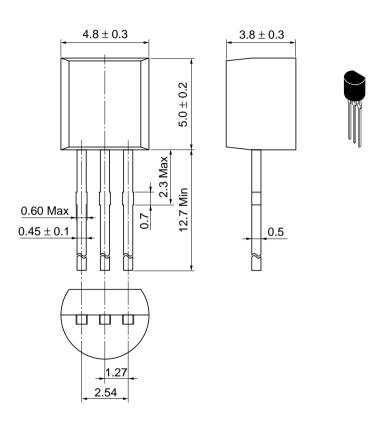
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	15	_	_	V	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$
Collector cutoff current	I _{CBO}	_	_	1	μΑ	$V_{CB} = 12 \text{ V}, I_{E} = 0$
	I _{CEO}	_	_	1	mA	$V_{CE} = 9 \text{ V}, R_{BE} = \infty$
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 1.5 \text{ V}, I_{C} = 0$
DC current transfer ratio	h_{FE}	40	120	250		$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA}$
Collector output capacitance	Cob	_	1.15	1.85	pF	$V_{CB} = 5 \text{ V}, I_{E} = 0,$ f = 1MHz
Gain bandwidth product	f _T	5.5	8.0	_	GHz	$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA}$
Power gain	PG	8.5	11.5	_	dB	$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA},$ f = 900 MHz
Noise figure	NF	_	1.2	25	dB	$V_{CE} = 5 \text{ V}, I_{C} = 5 \text{ mA},$ f = 900 MHz

See characteristic curve of 2SC4592



Unit: mm



Hitachi Code	TO-92 (2)
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.25 g

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