2SC4934

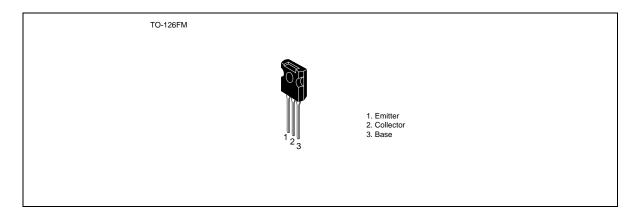
Silicon NPN Epitaxial

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Application

High voltage amplifier

Outline



Ordering Information

	h _{FE}
2SC4934D	250 to 500
2SC4934E	400 to 800

2SC4934

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

Item	Symbol	Ratings	Unit	
Collector to base voltage	$V_{\scriptscriptstyle{CBO}}$	120	V	
Collector to emitter voltage	V _{CEO}	120	V	
Emitter to base voltage	$V_{\scriptscriptstyle{EBO}}$	5	V	
Collector current	I _c	0.2	A	
Collector power dissipation	P _c	1.5	W	
	P _c *1	8		
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

Note: 1. Value at $T_c = 25$ °C.

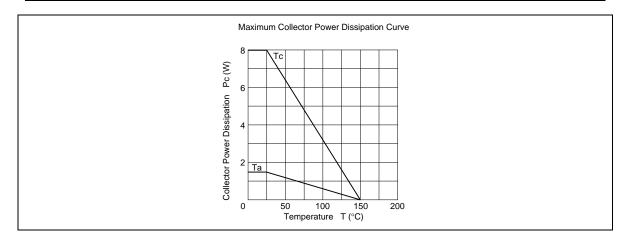
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item		Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to base breakdown voltage		$V_{_{(BR)CBO}}$	120	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage		$V_{\text{(BR)CEO}}$	120	_	_	V	$I_c = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base I voltage	oreakdown	$V_{\text{(BR)EBO}}$	5	_	_	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$
Collector cutoff current		I _{CBO}	_	_	10	μΑ	$V_{CB} = 80 \text{ V}, I_{E} = 0$
DC current transfer ratio	2SC4934D	h _{FE}	250	_	500		$V_{CE} = 5 \text{ V}, I_{C} = 10 \text{ mA}$
	2SC4934E	h _{FE}	400	_	800		
Base to emitter voltage		V_{BE}	_	_	1.0	V	$V_{CE} = 5 \text{ V}, I_{C} = 10 \text{ mA}$
Collector to emitter saturation voltage		V _{CE (sat)}	_	_	1.0	V	$I_{c} = 200 \text{ mA}, I_{B} = 20 \text{ mA}$
Gain bandwidth product		f _T		350		MHz	$V_{CE} = 10 \text{ V}, I_{E} = 50 \text{ mA}$
Collector output capacitance		Cob	_	3.5	_	pF	$V_{CB} = 30 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

See characteristic curves of 2SC4046.

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2SC4934



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