

2SA1889

Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	-200	V	
Collector to emitter voltage	V _{CEO}	-200	V	
Emitter to base voltage	V _{EBO}	-4	V	
Collector current	I _c	-0.2	А	
Collector peak current	I _{C(peak)}	-0.5	А	
Collector power dissipation	Pc	1.4	W	
Collector power dissipation	P _c * ¹	8	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

Note: 1. Value at $T_c = 25^{\circ}C$.

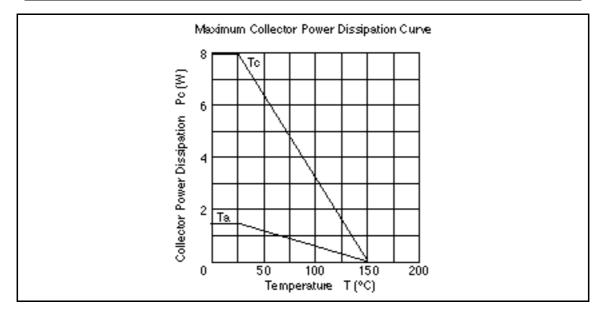
Electrical Characteristics (Ta = 25°C)

ltem		Symbol	Min	Тур	Max	Unit	Test conditions
Collector to bas voltage	e breakdown	$V_{\rm (BR)CBO}$	-200	_	_	V	$I_{c} = -10 \ \mu A, \ I_{E} = 0$
Collector to emi voltage	tter breakdown	$V_{(\text{BR})\text{CEO}}$	-200	_	_	V	$I_c = -1 \text{ mA}, \text{ R}_{BE} =$
Emitter to base voltage	breakdown	$V_{(\text{BR})\text{EBO}}$	-4	_	_	V	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$
Collector cutoff	current	I _{CBO}		_	-10	μA	$V_{CB} = -160 \text{ V}, I_{E} = 0$
DC current	2SA1889B	h _{FE}	60	_	120		$V_{ce} = -5 \text{ V}, \text{ I}_{c} = -10 \text{ mA}$
transfer ratio	2SA1889C	h _{FE}	100	_	200	-	
Base to emitter	voltage	V_{BE}	_	_	-1.0	V	V_{ce} = -5 V, I_c = -30 mA
Collector to emi voltage	tter saturation	$V_{\text{CE(sat)}}$	_	_	-1.0	V	$I_{c} = -30 \text{ mA}, I_{B} = -3 \text{ mA}$
Gain bandwidth	product	f _T	200	300	_	MHz	$V_{ce} = -20 \text{ V}, \text{ I}_{c} = -30 \text{ mA}$
Collector output	capacitance	Cob	_	5.0	_	pF	$V_{CB} = -30 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

See characteristic curves of 2SA1810.

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