

2SC2620

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}	4	V
Collector current	Ι _c	20	mA
Collector power dissipation	Pc	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C

Electrical Characteristics (Ta = 25°C)

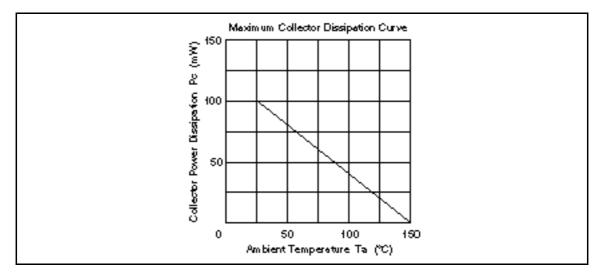
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	30	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	20	_	_	V	$I_c = 1 \text{ mA}, R_{BE} =$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	4	_	_	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	—		0.5	μA	$V_{CB} = 10 \text{ V}, I_{C} = 0$
Emitter cutoff current	I _{EBO}	_	_	0.5	μA	$V_{EB} = 2 V, I_{C} = 0$
DC current transfer ratio	h_{FE}^{*1}	60	_	200		V_{ce} = 6 V, I_c = 1 mA
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	0.17	_	V	$I_c = 20 \text{ mA}, I_B = 4 \text{ mA}$
Base to emitter voltage	V_{BE}	_	0.72	_	V	V_{ce} = 6 mA, I_c = 1 mA
Gain bandwidth product	f _T	—	940	—	MHz	$V_{ce} = 6 \text{ V}, \text{ I}_{c} = 5 \text{ mA}$
Collector output capacitance	Cob	—	0.9	—	pF	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$
Note: 1. The 2SC2620 is grouped by h_{FE} as follows.						

Grade	В	C
Mark	QB	QC
h _{FE}	60 to 120	100 to 200

See characteristic curves of 2SC535.

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