

2SC3957

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	40	V
Collector to emitter voltage	V _{CEO}	30	V
Emitter to base voltage	V _{EBO}	10	V
Collector current	I _c	300	mA
Collector peak current	I _{C (peak)}	500	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	–55 to +150	°C

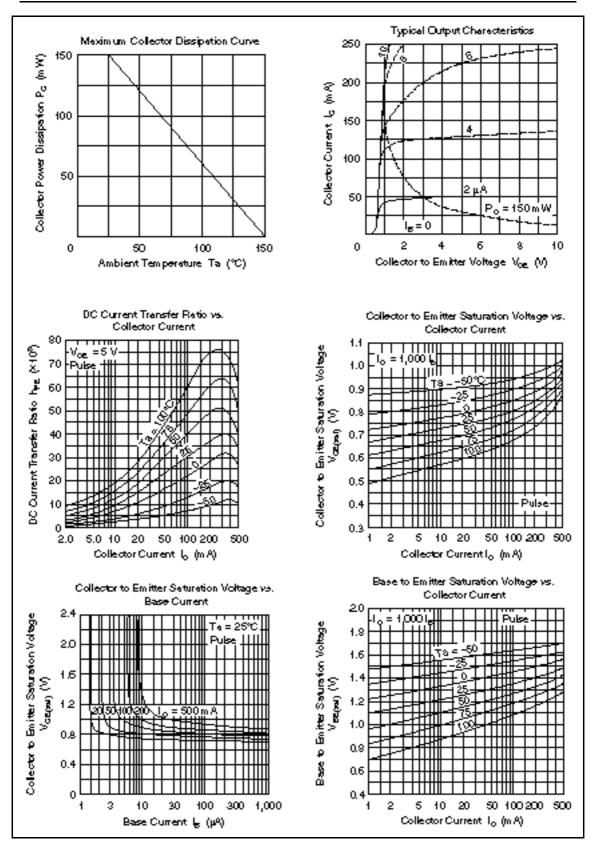
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	30	_	_	V	$I_c = 1 \text{ mA}, \text{ R}_{BE} =$
Collector cutoff current	I _{CBO}	—	—	100	nA	$V_{CB} = 30 \text{ V}, \text{ I}_{E} = 0$
Emitter cutoff current	I _{EBO}	—	—	100	nA	$V_{EB} = 10 \text{ V}, \text{ I}_{C} = 0$
DC current transfer ratio	h_{FE1}^{*1}	2000	—	10000	0	$I_c = 10 \text{ mA}, V_{ce} = 5 \text{ V}^{*2}$
	h_{FE2}^{*1}	3000	—			$I_c = 100 \text{ mA}, V_{ce} = 5 \text{ V}^{*2}$
	h_{FE3}^{*1}	3000	—			$I_c = 400 \text{ mA}, V_{ce} = 5 \text{ V}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.5	V	$I_{c} = 100 \text{ mA}, I_{B} = 0.1 \text{ mA}^{*2}$
Base to emitter saturation voltage	$V_{\text{BE(sat)}}$	_	_	2.0	V	$I_{c} = 100 \text{ mA}, I_{B} = 0.1 \text{ mA}^{*2}$

Notes: 1. The 2SC3957 is grouped by $\mathrm{h_{FE}}$ as follows.

		The Deceed is grouped by the					
	2. Pulse test						
Mark		GIB					
\mathbf{h}_{FE1}		2000 to 100000	5000 to 100000				
\mathbf{h}_{FE2}	:	3000 min	10000 min				
h_{FE3}	:	3000 min	10000 min				

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