2SC3553

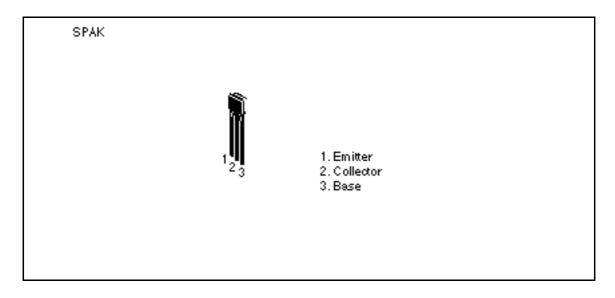
Silicon NPN Epitaxial

HITACHI

Application

Low frequency amplifier

Outline





2SC3553

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	35	V
Collector to emitter voltage	V_{CEO}	35	V
Emitter to base voltage	V_{EBO}	4	V
Collector current	I _c	500	mA
Collector power dissipation	P _c	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{\text{(BR)CBO}}$	35	_	_	V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	35	_	_	V	$I_C = 1 \text{ mA}, R_{BE} =$
Emitter to base breakdown voltage	$V_{\text{(BR)EBO}}$	4	_	_	V	$I_{E} = 10 \ \mu A, \ I_{C} = 0$
Collector cutoff current	I _{CBO}	_	_	0.5	μA	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE1} *1	60	_	320		$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$
	h _{FE2}	10	_	_		$V_{CE} = 3 \text{ V}, I_{C} = 500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	0.2	0.6	V	$I_{\rm C}$ = 150 mA, $I_{\rm B}$ = 15 mA* ²
Base to emitter voltage	V_{BE}	_	0.64	_	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$

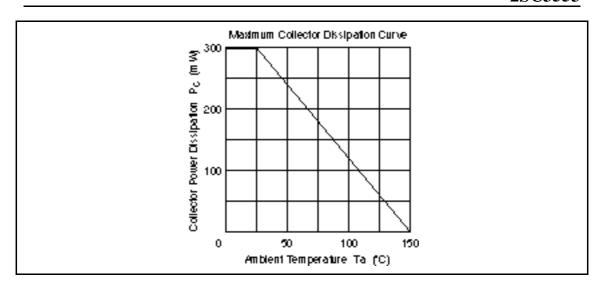
Notes: 1. The 2SC3553 is grouped by h_{FE1} as follows.

2. Pulse test

В	С	D
60 to 120	100 to 200	160 to 320

See characteristic curves of 2SC1213.

2SC3553



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