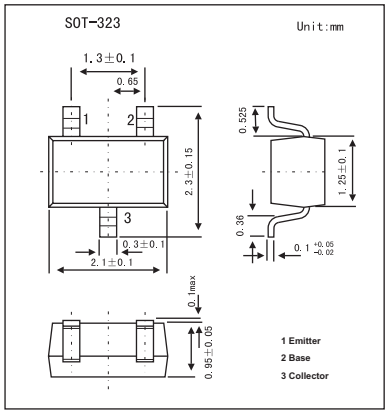
TY Semicondutor®

Product specification

2SC4155A



■ Features

- Small collector to emitter saturation voltage.
  $V_{CE(sat)}$=0.3max
- Excellent lineality of dc forward current gain.
- Supper mini package for easy mounting.

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	50	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	200	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	−55 to +125	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter break down voltage	$V_{(BR)CEO}$	I_C=100μA,R_{BE}=∞	50			V
Collector cut-off current	I_{CBO}	V_{CB} = 50 V, I_E = 0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB} = 4 V, I_C = 0			0.1	μA
DC current gain	h_{FE}	V_{CE} = 6 V, I_C = 1 mA	120		820	
Collector-emitter saturation voltage	$V_{CE\ (sat)}$	I_C = 100 mA, I_B = 10 mA			0.3	V
Transition frequency	f_T	V_{CE} = 6 V, I_C = -10 mA		200		MHz
Collector output capacitance	C_{ob}	V_{CB} = 6 V, I_E = 0, f = 1 MHz		4		pF
Noise figure	NF	V_{CB} = 6 V, I_E = 0, f = 1 MHz, Rg=2kΩ			15	dB

■ h_{FE} Classification

Marking	HQ	HR	HS	HT
hFE	120～270	180～390	270～560	390～820