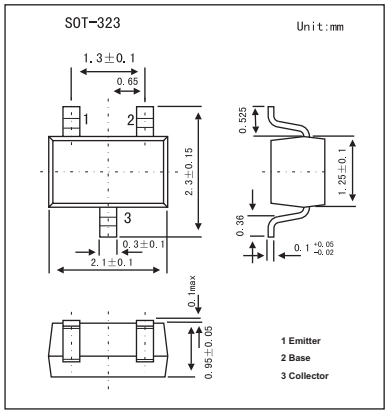
TY Semicondutor®

Product specification

2SC4081



■ Features

- Low Cob.

  Cob=2.0pF (Typ.)

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	0.15	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_j	150	℃
Storage temperature	T_{stg}	-55 to +150	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base voltage	BV_{CBO}	I_C=50μA	60			V
Collector-emitter voltage	BV_{CEO}	I_C=1mA	50			V
Emitter-base voltage	BV_{EBO}	I_E=50μA	7			V
Collector cutoff current	I_{CBO}	V_{CB}=60V			0.1	μA
Emitter cutoff current	I_{EBO}	V_{EB}=7V			0.1	μA
Forward current transfer ratio	h_{FE}	V_{CE}=6V, I_C=1mA	120		560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C/I_B=50mA/5mA			0.4	V
Transition frequency	f_T	V_{CE}=12V, I_E=?2mA, f=100MHz		180		MHz
Output capacitance	C_{ob}	V_{CE}=12V, I_E=0A, f=1MHz		2	3.5	pF

■ h_{FE} Classification

Marking	BQ	BR	BS
h_{FE}	120～270	180～390	270～560