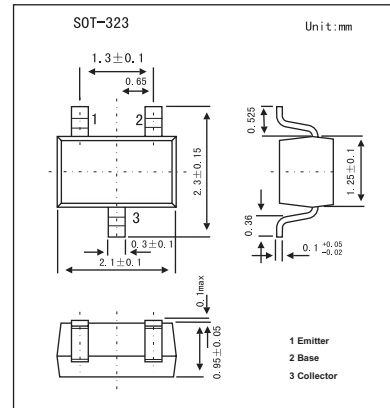


2SC4667

■ Features

- High transition frequency: $f_T = 400 \text{ MHz (typ.)}$
- Low saturation voltage: $V_{CE(sat)} = 0.3 \text{ V (max)}$
- High speed switching time: $t_{stg} = 15 \text{ ns (typ.)}$



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	40	V
Collector-emitter voltage	V_{CEO}	15	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	200	mA
Base current	I_B	40	mA
Collector power dissipation	P_C	100	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Collector cut-off current	I_{CBO}	$V_{CB} = 40 \text{ V}, I_E = 0$			0.1	μA	
Emitter cut-off current	I_{EBO}	$V_{EB} = 5 \text{ V}, I_C = 0$			0.1	μA	
DC current gain	h_{FE}	$V_{CE} = 1 \text{ V}, I_C = 10 \text{ mA}$	40		240		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 20 \text{ mA}, I_B = 1 \text{ mA}$			0.3	V	
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 20 \text{ mA}, I_B = 1 \text{ mA}$			1.0	V	
Transition frequency	f_T	$V_{CE} = 10 \text{ V}, I_C = 10 \text{ mA}$	200	400		MHz	
Collector output capacitance	C_{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4	6	pF	
Turn-on time	t_{on}			70		ns	
Storage time	t_{stg}				15		ns
Fall time	t_f				30		ns

■ hFE Classification

Marking	CH		
Rank	R	O	Y
hFE	40~80	70~140	120~240