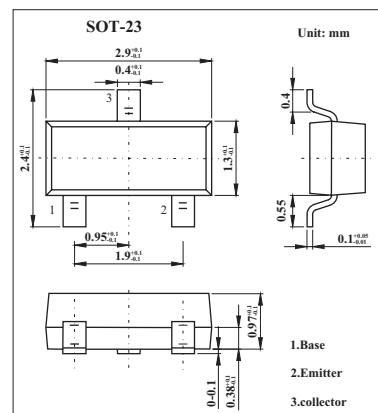


Silicon NPN Epitaxial**2SC3437****■ Features**

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

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	40	V
Collector-emitter voltage	V _{C EO}	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	150	mW
Junction temperature	T _j	125	°C
Storage temperature range	T _{stg}	-55 to +125	°C

2SC3437

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 40 V, I _E = 0			0.1	µA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0			0.1	µA
DC current gain	h _{FE}	V _{CE} = 1 V, I _C = 10 mA	40		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 20 mA, I _B = 1 mA			0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 20 mA, I _B = 1 mA			1.0	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA	200	400		MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		4	6	pF
Turn-on time	t _{on}	 Duty cycle ≤ 2%	70		ns	
Storage time	t _{stg}			15		ns
Fall time	t _f			30		ns

■ hFE Classification

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