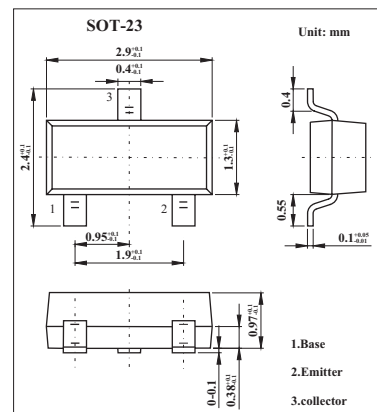


2SC3734

■ Features

- High speed : $t_{stg} < 200ns$.



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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	40	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	200	mA
Total power dissipation at $25^\circ C$ ambient temperature	P_T	200	mW
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 to +150	$^\circ C$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 30V, I_E = 0$			100	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = 3V, I_C = 0$			100	nA
DC current gain *	h_{FE}	$V_{CE} = 1V, I_C = 10mA$	75	200	300	
Collector-emitter saturation voltage *	$V_{CE(sat)}$	$I_C = 50mA, I_B = 5mA$		0.12	0.3	V
Base-emitter saturation voltage *	$V_{BE(sat)}$	$I_C = 50mA, I_B = 5mA$		0.8	0.95	V
Gain bandwidth product	f_T	$V_{CE} = 20V, I_E = -10mA$	300	510		MHz
Output capacitance	C_{ob}	$V_{CB} = 5V, I_E = 0, f = 1.0MHz$		3.0	4.0	pF
Turn-on time	t_{on}	$V_{CC} = 3V,$			70	ns
Storage time	t_{stg}	$I_C = 10mA,$		100	200	ns
Turn-off time	t_{off}	$I_{B1} = -I_{B2} = 1mA$			250	ns

*. $PW \leq 350\mu s, duty\ cycle \leq 2\%$

■ hFE Classification

Marking	B22	B23	B24
hFE	75~150	100~200	150~300