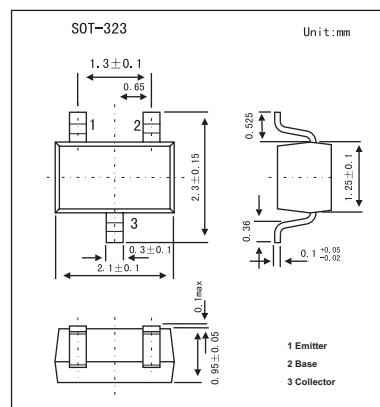


High Frequency Amplifier

2SC4774

■ Features

- Very low output-on resistance (Ron).
- Low capacitance.

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	12	V
Collector-emitter voltage	V_{CE0}	6	V
Emitter-base voltage	V_{EB0}	3	V
Collector current	I_c	50	mA
Collector power dissipation	P_c	0.2	W
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base voltage	BV_{CB0}	$I_c=10\mu\text{A}$	12			V
Collector-emitter voltage	BV_{CE0}	$I_c=1\text{mA}$	6			V
Emitter-base voltage	BV_{EB0}	$I_E=10\mu\text{A}$	3			V
Collector cutoff current	I_{cB0}	$V_{CB}=10\text{V}$			0.5	μA
Emitter cutoff current	I_{E0}	$V_{EB}=2\text{V}$			0.5	μA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c/I_B=10\text{mA}/1\text{mA}$			0.3	V
Forward current transfer ratio	h_{FE}	$V_{CE}/I_c=5\text{V}/5\text{mA}$	270		560	
Transition frequency	f_T	$V_{CE}=5\text{V}, I_E=-10\text{mA}, f=200\text{MHz}$	300	800		MHz
Output capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0\text{A}, f=1\text{MHz}$		1	1.7	pF
Output-on resistance	R_{on}	$I_B=3\text{mA}, V_i=100\text{mV}_{rms}, f=500\text{kHz}$		2		Ω

■ Marking

Marking	BMS