2SC4691

Silicon NPN epitaxial planer type

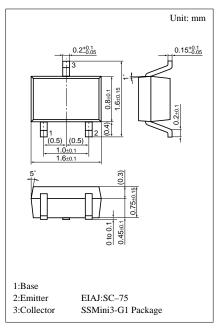
For high speed switching

Features

- High-speed switching.
- Low collector to emitter saturation voltage V_{CE(sat)}.
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	40	V
Collector to emitter voltage	V _{CES}	40	V
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	300	mA
Collector current	I_{C}	100	mA
Collector power dissipation	P_{C}	125	mW
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	−55 ~ +125	°C



Marking symbol: 2Y

Electrical Characteristics (Ta=25°C)

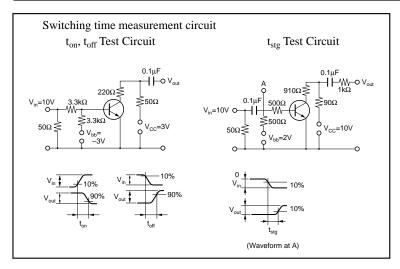
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 15V, I_{E} = 0$			0.1	μА
Emitter cutoff current	I_{EBO}	$V_{EB} = 4V, I_{C} = 0$			0.1	μΑ
Forward current transfer ratio	h _{FE} *	$V_{CE} = 1V, I_{C} = 10mA$	60		200	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 10\text{mA}, I_B = 1\text{mA}$		0.17	0.25	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = 10$ mA, $I_B = 1$ mA			1.0	V
Transition frequency	f_T	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		450		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		2	6	pF
Turn-on time	t _{on}			17		ns
Turn-off time	t _{off}	Refer to the measurment circuit		17		ns
Storage time	t _{stg}			10		ns

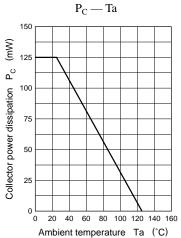
*h_{FE} Rank classification

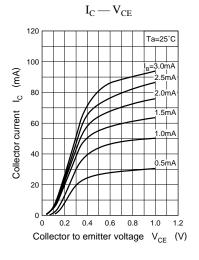
Rank	Q	R		
h _{FE}	60 ~ 120	90 ~ 200		
Marking Symbol	2YQ	2YR		

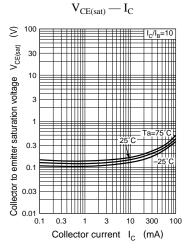
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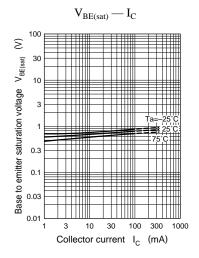
Transistor 2SC4691

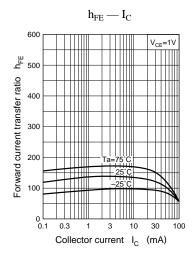


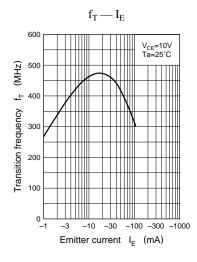


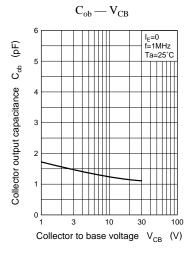












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