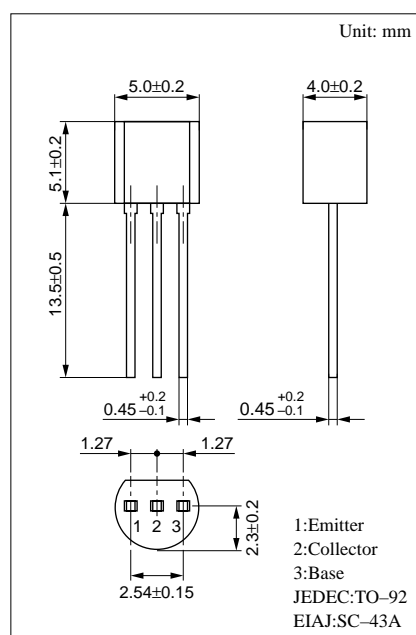


Silicon NPN epitaxial planer type

For DC-DC converter

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- Low ON resistance R_{on} .
- High forward current transfer ratio h_{FE} .

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	25	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	12	V
Peak collector current	I_{CP}	1	A
Collector current	I_C	0.5	A
Collector power dissipation	P_C	600	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 25V, I_E = 0$			100	nA
Collector to base voltage	V_{CBO}	$I_C = 10\mu A, I_E = 0$	25			V
Collector to emitter voltage	V_{CEO}	$I_C = 1mA, I_B = 0$	20			V
Emitter to base voltage	V_{EBO}	$I_E = 10\mu A, I_C = 0$	12			V
Forward current transfer ratio	h_{FE1}^{*1}	$V_{CE} = 2V, I_C = 0.5A^{*2}$	200		800	
	h_{FE2}	$V_{CE} = 2V, I_C = 1A^{*2}$	60			
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 0.5A, I_B = 20mA$		0.13	0.4	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = 0.5A, I_B = 50mA$			1.2	V
Transition frequency	f_T	$V_{CB} = 10V, I_E = -50mA, f = 200MHz$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		10		pF
ON resistance	R_{on}^{*3}			1.0		Ω

Rank	R	S	T
h_{FE1}	200 ~ 350	300 ~ 500	400 ~ 800



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"Once a component manufacturer decides to eliminate a component datasheet from its web site," said Zriel, "we take over and list it along with the millions of other datasheets that our users can quickly access."

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Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

"We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site," said Zriel. "We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design."

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