## 2SA1791

### Silicon PNP epitaxial planer type

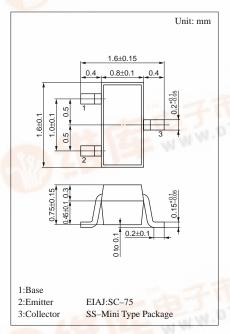
For high-frequency amplification Complementary to 2SC4656

#### Features

- High transition frequency f<sub>T</sub>.
- Small collector output capacitance C<sub>ob</sub>.
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

#### Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit			
Collector to base voltage	V <sub>CBO</sub>	-50	V			
Collector to emitter voltage	V <sub>CEO</sub>	-50	V			
Emitter to base voltage	V <sub>EBO</sub>	-5	V			
Collector current	$I_{C}$	-50	mA			
Collector power dissipation	P <sub>C</sub>	125	mW			
Junction temperature	T <sub>j</sub>	125	°C			
Storage temperature	$T_{stg}$	<b>−55 ~ +125</b>	°C			



Marking symbol: AL

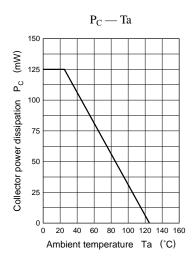
#### Electrical Characteristics (Ta=25°C)

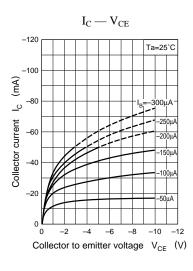
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -10V, I_E = 0$			- 0.1	μΑ
	$I_{CEO}$	$V_{CE} = -10V, I_B = 0$			-100	μΑ
Collector to base voltage	$V_{CBO}$	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-50		111	V
Collector to emitter voltage	$V_{CEO}$	$I_{C} = -1  \text{mA},  I_{B} = 0$	-50		5 TX	V
Emitter to base voltage	$V_{EBO}$	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5		W.	V
Forward current transfer ratio	h <sub>FE</sub>	$V_{CE} = -10V, I_{C} = -2mA$	200	F 1.	500	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = -10 {\rm mA}, I_{\rm B} = -1 {\rm mA}$		- 0.1	- 0.3	V
Transition frequency	$f_T$	$V_{CB} = -10V, I_E = 2mA, f = 200MHz$		250		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10V, I_E = 0, f = 1MHz$		1.5		pF

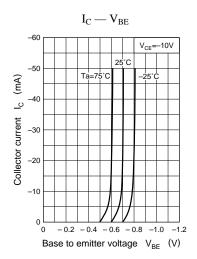
#### \*h<sub>FE</sub> Rank classification

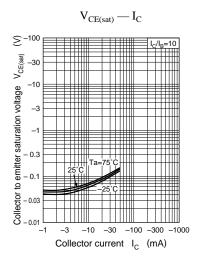
Rank	Q	R		
$h_{FE}$	200 ~ 400	250 ~ 500		
Marking Symbol	ALQ	ALR		

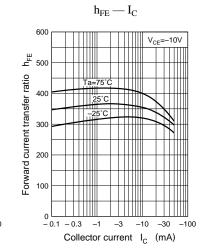
Transistor 2SA1791

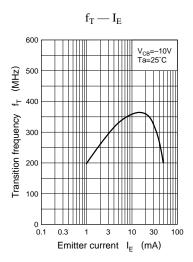


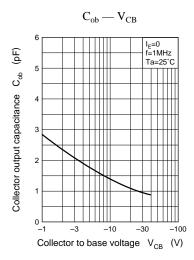












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