

# General Purpose Transistor (50V, 0.15A)

## 2SA1774EB

#### Applications

General purpose small signal amplifier.

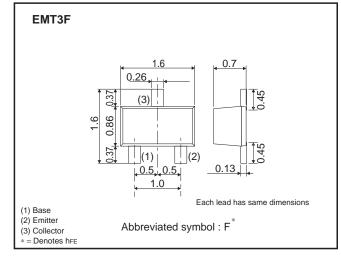
#### Features

1) Excellent hre linearity. 2) Complements the 2SC4617EB.

#### Structure

PNP silicon epitaxial. planar transistor.

#### •Dimensions (Unit : mm)



#### •Absolute maximum (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-60	V	
Collector-emitter voltage	Vceo	-50	V	
Emitter-base voltage	Vево	-6	V	
	lc	-150		
Collector current	Icp *1	-200	mA	
Power dissipation	PD *2	150	mW	
Junction temperature	Tj	150	°C	
Range of storage temperature	Tstg	-55 to +150	°C	

\*1 Pw=1ms Single pulse \*2 Each terminal mounted on a recommended land

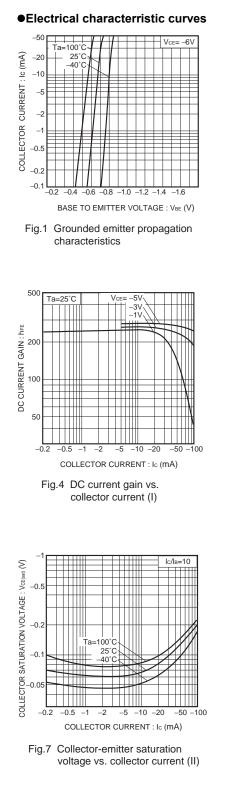
#### •Electrical characteristics (Ta=25°C)

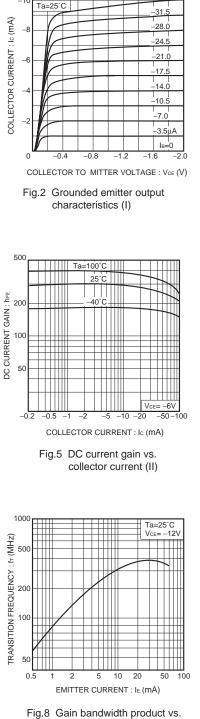
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	-50	_	-	V	lc=-1mA
Collector-base breakdown voltage	ВУсво	-60	_	-	V	Ic=-50μA
Emitter-base breakdown voltage	BVEBO	-6	-	-	V	Ie=-50μA
Collector cutoff current	Ісво	-	_	-100	nA	Vcb=-60V
Emitter cutoff current	Іево	-	_	-100	nA	Veb=-6V
Collector-emitter saturation voltage	VCE(sat)	-	_	-0.5	V	Ic/I <sub>B</sub> =–50mA/–5mA
DC current gain	hfe	120	_	390	-	Vce=-6V, Ic=-1mA
Transition frequency	f⊤	_	140	-	MHz	Vce=-12V, Ie=2mA, f=100MHz
Output capacitance	Cob	-	4.0	5.0	pF	Vce=-12V, Ie=0A, f=1MHz

#### hFE rank categories

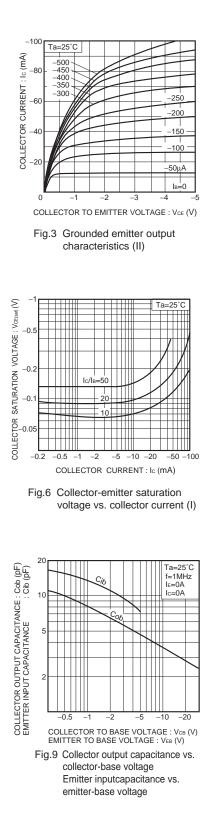
Rank	Q	R
hfe	120 to 270	180 to 390

## 2SA1774EB





emitter current



	Notes
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