General Purpose Transistor (-50V, -0.15A) 2SA1774EB

Applications

General purpose small signal amplifier

Features

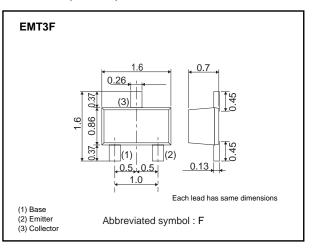
1) Excellent hre linearity.

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	Vebo	-6	V	
Collector current	lc	-150		
	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

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Transistors

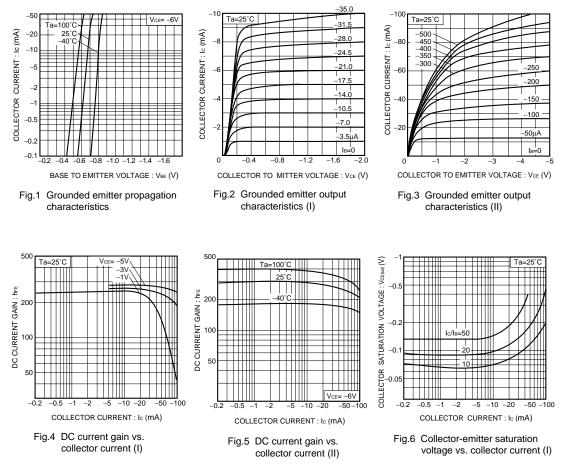
•Electrical characteristics (Ta=25°C)

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	ВVево	-6	-	-	V	Iε=-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/IB=-50mA/-5mA
DC current gain	hfe	82	-	560	-	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

hre rank categories

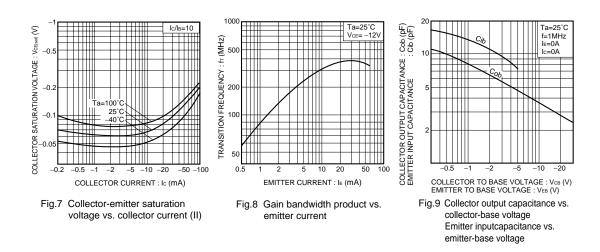
Rank	Р	Q	R	S
hfe	82 to 180	120 to 270	180 to 390	270 to 560

•Electrical characterristic curves



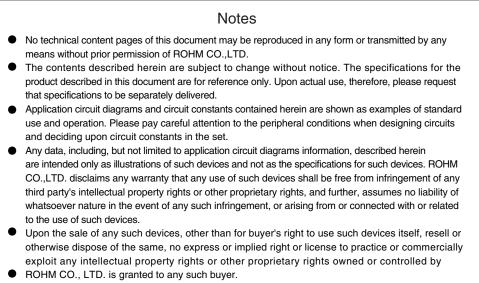
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Appendix1-Rev2.0