General purpose small signal amplifier (50V, 0.15A) 2SC4617EB

Features

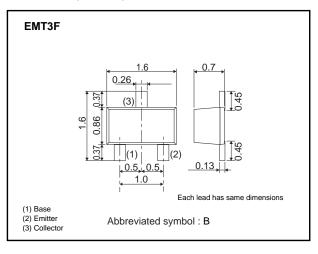
1) Excellent hre linearity.

2) Complements the 2SA1774EB.

Structure

NPN silicon epitaxial planar transistor

•Dimensions (Unit : mm)



•Absolute maximum (Ta=25°C)

Symbol	Limits	Unit	
Vсво	60	V	
VCEO	50	V	
Vebo	7	V	
lc	150		
Icp *1	200	- mA	
Po *2	150	mW	
Tj	150	°C	
Tstg	-55 to +150	°C	
	VCBO VCEO VEBO IC ICP *1 PD *2 Tj	VCBO 60 VCEO 50 VEBO 7 Ic 150 IcP *1 200 PD *2 150 Tj 150	

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

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Transistors

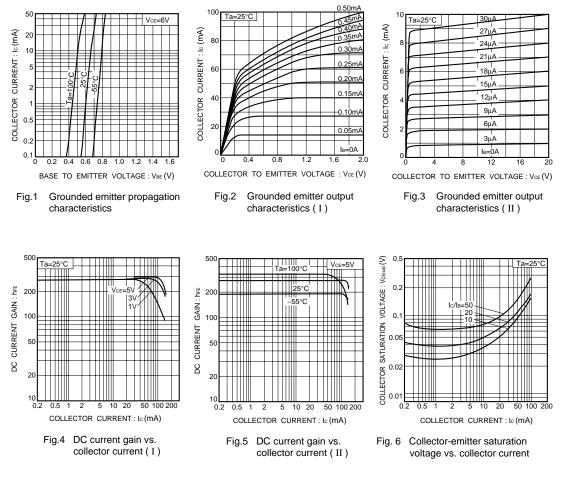
•Electrical characteristics (Ta=25°C)

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	7	-	-	V	Iε=50μA
Collector cutoff current	Ісво	-	-	100	nA	Vcb=60V
Emitter cutoff current	Іево	-	-	100	nA	VEB=7V
Collector-emitter saturation voltage	VCE(sat)	-	-	400	mV	Ic/Iв=50mA/5mA
DC current gain	hfe	82	-	560	-	Vce=6V, Ic=1mA
Transition frequency	fт	-	180	-	MHz	Vce=12V, Ie=-2mA, f=100MHz
Output capacitance	Cob	-	2	3.5	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

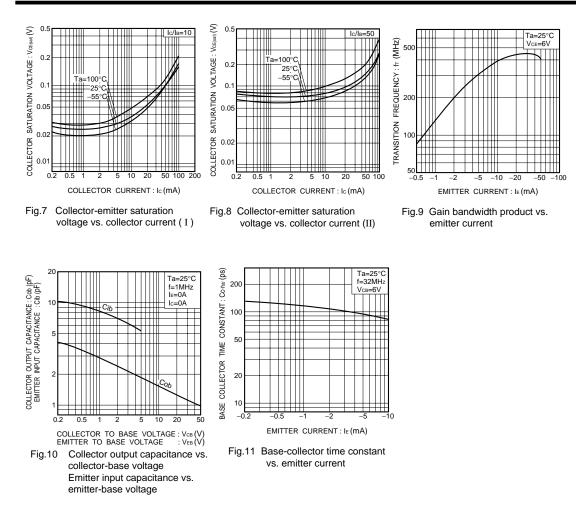
Electrical characterristic curves



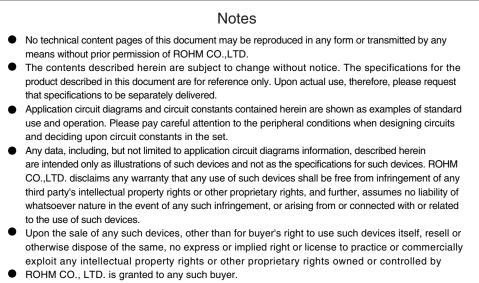
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• Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

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Appendix1-Rev2.0