# General purpose amplification(-12V, -2A) 2SB1730

#### Applications

Low frequency amplifier Deiver

#### Features

1) A collector current is large.

2) Collector saturation voltage is low.  $V_{CE(sat)} \le -180 mV$ at Ic=  $-1A/I_B=-50 mA$ 

#### Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SB1730		0

#### ●Absolute maximum ratings (Ta=25°C)

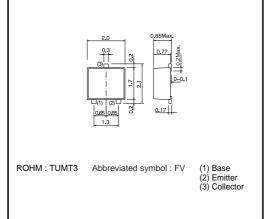
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Parameter	Symbol	Limits	Unit		
Collector-base voltage	Vсво	-15	V		
Collector-emitter voltage	Vceo	-12	V		
Emitter-base voltage	Vebo	-6	V		
	lc	-2	А		
Collector current	Іср	-4	Α*		
Collector power dissipation	Pc	400	mW		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		
4 Cinele pulse Dur Ame					

\* Single pulse Pw=1ms

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

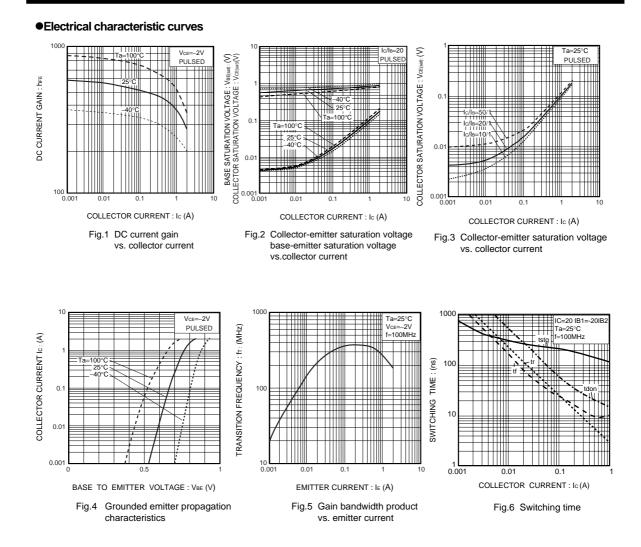
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-15	-	-	V	Ic=–10μA
Collector-emitter breakdown viltage	BVCEO	-12	-	-	V	lc=-1mA
Emitter-base breakdown voltage	ВVево	-6	-	-	V	Iε=-10μA
Collector cutoff current	Ісво	-	-	-100	nA	Vcb=-15V
Emitter cutoff current	Іево	-	-	-100	nA	Veb=-6V
Collerctor-emitter saturation voltage	VCE(sat)	-	-120	-180	mV	Ic=−1A, I <sub>B</sub> =−50mA
DC current transfer ratio	hfe	270	-	680	-	Vce=-2V, Ic=-200mA*
Transition frequency	fт	-	360	-	MHz	Vce=-2V, Ie=200mA, f=100MHz*
Output capacitance	Cob	-	15	-	pF	Vcb=-10V, Ie=0mA, f=1MHz
* Pulsed						

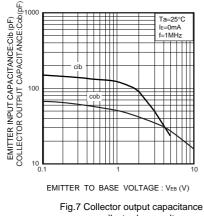
## •Dimensions (Unit : mm)



### 2SB1730

#### Transistors





vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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