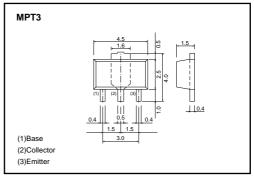
Transistors

# Medium Power Transistor (-60V, -2A) 2SB1561

#### Features

- 1) Low saturation voltage, typically
- $V_{CE (sat)} = -0.15V \text{ at Ic} / I_B = -1A / -50mA.$
- 2) Collector-emitter voltage = -60V
- 3) Pc = 2W (on 40×40×0.7mm ceramic board).
- 4) Complements the 2SD2391.

#### •External dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-60	V	
Collector-emitter voltage	VCEO	-60	V	
Emitter-base voltage	Vebo	-6	V	
	lc	-2	А	
Collector current	Іср	-6	A *1	
Collector power dissinction	D-	0.5	14/	
Collector power dissipation	Pc	2	W *2	
Junction temperature	Tj	150	٥C	
Storage temperature	Tstg	-55 to +150	۵°	

\*1 Single pulse, Pw=10ms
\*2 When mounted on a 40×40×0.7mm ceramic board.

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	-60	-	-	V	Ic=-50μA	
Collector-emitter breakdown voltage	BVCEO	-60	-	-	V	Ic=-1mA	
Emitter-base breakdown voltage	ВVево	-6	-	-	V	Iε=-50μA	
Collector cutoff current	Ісво	-	-	-0.1	μΑ	Vcb=-50V	
Emitter cutoff current	Іево	-	-	-0.1	μΑ	Veb=-5V	
Collector-emitter saturation voltage	VCE(sat)	-	-0.15	-0.35	V	Ic/IB=-1A/-50mA	*
DC current transfer ratio	hfe1	120	-	270	-	Vce/Ic=-2V/-0.5A	
	hfe2	45	-	-	-	Vce/Ic=-2V/-1.5A	
Transition frequency	fт	-	200	-	MHz	Vce=-2V, Ie=0.5A, f=100MHz	*
Output capacitance	Cob	-	23	-	pF	Vcb=-10V, IE=0A, f=1MHz	

\* Measured using pulse current



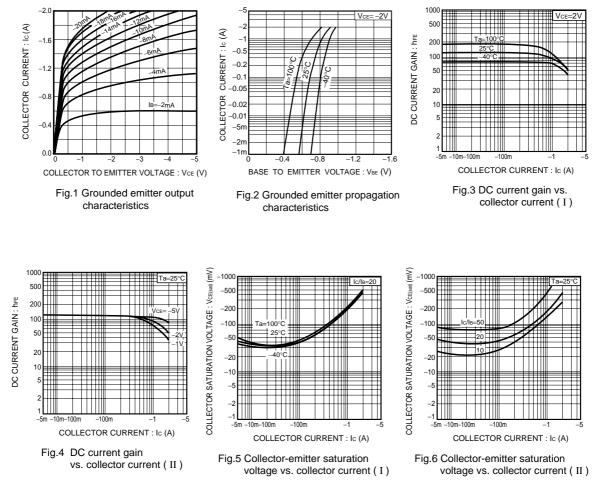
### Transistors

#### Packaging specifications and hre

Туре	2SB1561
Package	MPT3
hfe	Q
Marking	BL*
Code	T100
Basic ordering unit (pieces)	1000
N Desetes k	

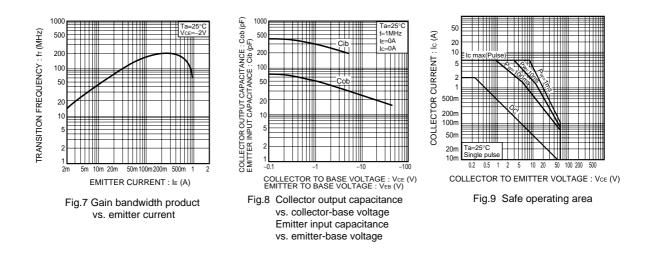
\*Denotes hre

#### • Electrical characteristic curves



# 2SB1561

## Transistors



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