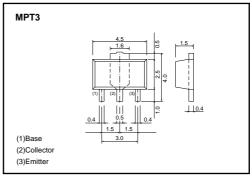
Transistors

# Medium Power Transistor (60V, 2A) 2SD2391

#### Features

- 1) Low saturation voltage, typically
- Vce (sat) =0.13V at Ic / IB =1A/50mA.
- 2) Collector-emitter voltage =60V
- 3) Pc = 2W (on 40×40×0.7mm ceramic board).
- 4) Complements the 2SB1561.

#### •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	
Collector current	lc	2	А	
Collector current	IC	6	A *1	
	Pc	0.5	w	
Collector power dissipation	PC	2	VV *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	Ιε=50μΑ	
Collector cutoff current	Ісво	-	-	0.1	μΑ	Vcb=50V	
Emitter cutoff current	Іево	-	-	0.1	μΑ	Veb=5V	
Collector-emitter saturation voltage	VCE(sat)	-	0.13	0.35	V	Ic/I <sub>B</sub> =1A/50mA	*
DC current transfer ratio	hfe1	120	-	270	-	Vce/Ic=-2V/-0.5A	
	hfe2	45	-	-	-	Vce/Ic=-2V/-1.5A	
Transition frequency	fт	_	210	_	MHz	Vce=2V, Ie=-0.5A, f=100MHz	*
Output capacitance	Cob	_	21	-	pF	Vcb=10V, IE=0A, f=1MHz	

\* Measured using pulse current



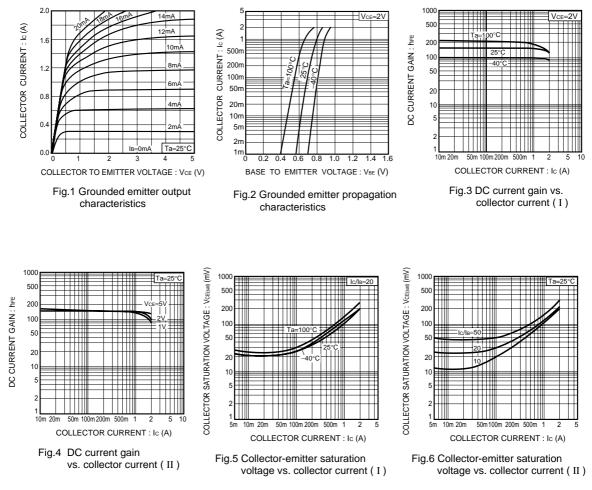
## Transistors

#### Packaging specifications and hre

Туре	2SD2391
Package	MPT3
hfe	Q
Marking	DT*
Code	T100
Basic ordering unit (pieces)	1000

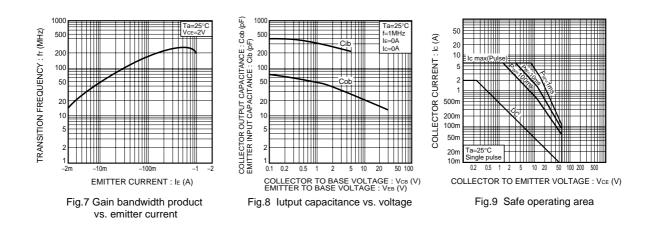
\*Denotes hre

#### • Electrical characteristic curves



# 2SD2391

# Transistors



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