# For Power Amplification (50V, 3A) **2SD2395**

#### ●Structure

NPN Silicon Epitaxial Planar Transistor

#### ●Features

- 1) Low VCE (sat).
- 2) Wide SOA.

## Applications

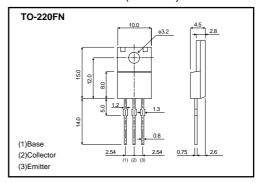
Relay drive DC-DC converter Stabilized power supply

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

Parameter	Parameter		Limits	Unit
Collector-base voltage		Vсво	60	V
Collector-emitter voltage		Vceo	50	V
Emitter-base voltage	Э	Vево	5	V
Collector current	DC	lc	3	A(DC)
	Pulse	Icp 4.5		A(Pulse)*1
Collector newer dies			2	W(Ta=25°C)
Collector power diss	ыраноп	Pc 25		W(Tc=25°C)
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C
14 Dec 400mm Cinals and	_			

<sup>\*1</sup> Pw=100ms, Single pulse

## ●External dimensions (Unit : mm)



# Complements

PNP	NPN
2SB1566	2SD2395

# ●Packaging specifications and hFE

		Package	Taping
Type		Code	1
	hfe	Basic ordering unit (pieces)	500
2SD2395	EF		0

## hre values are classified as follows:

Item	E	F	
hfe	100 to 200	160 to 320	

# ●Electrical characteristics (Ta=25°C)

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	50	-	-	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	60	-	_	V	Ic=50μA
Emitter-base breakdown voltage	ВУево	5	-	_	V	Iε=50μA
Collector cutoff current	Ісво	-	-	1.0	μΑ	Vcb=60V
Emitter cutoff current	ІЕВО	-	-	1.0	μА	V <sub>EB</sub> =4V
Collector-emitter saturation voltage	VCE(sat)	_	_	1.0	V	Ic/I <sub>B</sub> =2A/0.2A *1
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	-	-	1.5	V	Ic/I <sub>B</sub> =2A/0.2A *1
DC current gain	hfe	100	-	320	_	VcE=3V, Ic=0.5A
Transition frequency	f⊤	-	100	-	MHz	Vc=5V, I==-0.5A, f=30MHz *1
Collector output capacitance	Cob	_	35	_	pF	Vcb=10V , Ie=0A , f=1MHz

<sup>\*1</sup> Pulse test

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