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

Structure

NPN Silicon Epitaxial Planar Transistor

● Features

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

Applications

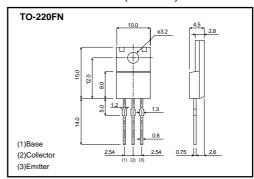
Relay drive DC-DC converter Stabilized power supply

● 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	Vebo 5		V
Collector current			3	A(DC)
Collector current	Pulse Icp 4.5	4.5	A(Pulse)*1	
Collector newer dies	ination	Da	2	W(Ta=25°C)
Collector power diss	ыраноп	Pc 25 W(Tc		W(Tc=25°C)
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C
14 Dec 100mm Cinela aula	_			

^{*1} Pw=100ms, Single pulse

●External dimensions (Unit : mm)



Complements

PNP	NPN
2SB1566	2SD2395

●Packaging specifications and hFE

		Package	Taping
Туре		Code	-
	hfe	Basic ordering unit (pieces)	500
2SD2395	EF		0

hFE 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 _{EB} =4V
Collector-emitter saturation voltage	VCE(sat)	_	_	1.0	V	Ic/I _B =2A/0.2A *1
Base-emitter saturation voltage	V _{BE} (sat)	-	-	1.5	V	Ic/I _B =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

^{*1} Pulse tes

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