For Power Amplification (–60V, –3A) **2SB1566**

●Structure

PNP Silicon Epitaxial Planar Transistor

● Features

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

Applications

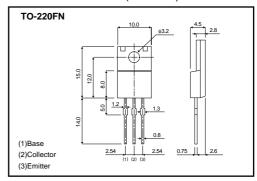
Relay drive DC-DC converter Stabilized power supply

● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		Vсво	-60	V
Collector-emitter voltage		Vceo	-50	V
Emitter-base voltage		Vево	-5	V
Collector current	DC	lc	-3	A(DC)
	Pulse	Іср	-4.5	A(Pulse)*1
Callacter newer dies	Collector power dissipation Pc		2	W(Ta=25°C)
Collector power diss			25	W(Tc=25°C)
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C

^{*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
2SB1566	EF		0

hre values are classified as follows:

Item	E	F
hfe	100 to 200	160 to 320

●Electrical characteristics (Ta=25°C)

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	IE=-50μA
Collector cutoff current	Ісво	-	-	-1.0	μΑ	Vcb=-60V
Emitter cutoff current	ІЕВО	-	-	-1.0	μΑ	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	٧	Ic/I _B =-2A/-0.2A *1
DC current gain	hfe	100	-	320	-	Vce=-3V, Ic=-0.5A
Transition frequency	f⊤	-	60	-	MHz	Vc=-5V, Ie=0.5A, f=30MHz *1
Collector output capacitance	Cob	_	40	-	pF	Vcb=-10V, Ie=0A, f=1MHz

^{*1} Pulse test

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