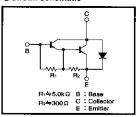
|Power Transistor (-120V, -6A)

2SB1340

- Darlington connection for high DC current gain.
- 2) Built-in resistor between base and emitter.
- 3) Built-In damper dlode.
- 4) Complements the 2SD1889.

●Circuit achematic



●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit		
Collector-base voltage	Vcao	-120	٧		
Collector-emitter voltage	Vces	⊢120	V		
Emitter-base voltage	Veso	в	٧		
Collector current		-6 A(DC)			
	lc lc	-10	A (Pulse) *		
Collector power dissipation	Pc	2	w		
	PC PC	30	W (To=25'C)		
Junction temperature	T}	150	r		
Storage temperature	Tetg	−55 ~150	Ç		

^{*} Sigle puise Pw≔10ms

●Packaging specifications and her

Туре	2\$B1340
Package	TO-220FP
hee	2k~20k
Code	_
Basic ordering unit (pieces)	500

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions		
Collector-base breakdown voltage	ВУсво	120	_	_	V	Ic=-50 μA		
Collector-emitter breakdown voltage	ВУсео	-120	_		V	lo=-5mA		
Collector cutoff curren	Ісво	_		-100	μA	V _{GB} =120V		
Emitter cutoff current	lebo	"	_	-3	mA	V _{ED} =5V		
Collector-emitter saturation voltage	VCE(sei)		_	-1.5	V	Ic/Is=-3A/-6mA	*1	
DC current transfer ratio	hre	2k		20k		Vce/lc=-3V/-2A	* 1	
Transition frequency	fτ		12		MHz	Vc=-5V, I==0.5A, I=10MHz	*2	
Output capacitance	Cob		70		pF	Vos=-10V , Is=0A , (=1MHz		

^{*1} Measured using pulse current.

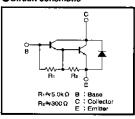
(96-650-B68)

Power Transistor (120V, 6A) 2SD1889

●Features

- 1) Darlington connection for high DC current galn.
- 2) Built-in resistor between base and emitter.
- 3) Built-in damper diode.
- 4) Complements the 2SB1340.

Circuit schematic



●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limite	Unit		
Collector-base voltage	Vсво	120	V		
Collector-emitter voltage	Vccs	120	٧		
Emitter-base voltage	VEBO	6	V		
Collector current	T	6 A(DC)			
	lc	10	A (Pulse) *		
Collector power dissipation	Pc	2	W (Tc=25°C)		
	l FC	30			
Junction temperature	Tj	150	'C		
Storage temperature	Tstg	-55~150	C		

^{*} Sigle pulse Pw=100ms

●Packaging specifications and hrs

Туре	2SD1869
Package	TO-220FP
hre	2k~20k
Code	
Basic ordering unit (pieces)	500
	·

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Mln.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	120	_	_	V	Ic=50 μ A	
Collector-emitter breakdown voltage	BVceo	120	_		V	Ic=5mA	
Collector cutoff curren	Iceo			100	μΑ	Vcs=120V	
Emitter cutoff current	IEBO			3	mA	V∈B=5V	
Collector-emitter saturation voltage	VCE(eat)	_		1.5	V	lc/ls=3A/6mA	*1
DC current transfer ratio	hes	2k		20k		Vce/lc=3V/2A	*1
Transition frequency	f⊤		40	-	MHz	Voe=5V , IE=-0.2A , I=10MHz	*2
Output capacitance	Cob	_	50		рF	VGB=10V , IE=0A , f=1MHz	

^{*1} Measured using pulse current.

(96-765-DBB)

^{*2} Transition frequency of mounted transistor.

^{*2} Transition frequency of mounted translator.

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