Power Transistor (-80V, -4A)

2SA1635

- Low Voc(sat). (Typ. -0.3V at lc/ls=-2/-0.2A)
 Excellent DC current gain characteristics.
- 3) Pc =30W (Tc=25°C)
- 4) Wide SOA (safe operating area).
- 5) Complements the 2SC4008.

●Packaging specifications and hrs

Туре	2SA1635
Package	TO-220FP
hre	Е
Code	
Basic ordering unit (pieces)	500

●Absolute maximum ratings(Ta=25℃)

Parameter	Symbol	Limita	Unit
Collector-base voltage	Vcво	—80	٧.
Collector-emitter voltage	VCEO	-80	V
Emitter-base voltage	VEBO	-5	٧
Collector current		-4	Α
	lc lc	-6	A (Pulse)
Collector power dissipation	Pc	30	W (Tc=25°C)
Junction temperature	Тј	150	ť
Storage temperature	Tetg	−55~150	Ť

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-80	_	_	V	lo=-1mA
Collector-emitter breakdown voltage	BVoso	-80	-	_	V	tc=-50 μA
Emitter-base breakdown voltage	BVEBO	5	_	_	V	Iε==-50 μ A
Collector cutoff current	Iceo	T'''-		-10	μА	Vce=-80V
Emilter cutoff current	leso		_	-10	μА	V _{EB} =-4V
Collector-emitter saturation voltage	VCE(set)	-		-1.5	V	Ic/le=-2A/-0.2A
Base-emitter saturation voltage	VBE(set)		_	-1.5	V	Ic/ta∞—2A/—0.2A
DC current transfer ratio	hre	100		200		Voe/Ic=-4V/-1A
Transition frequency	f⊤		12	-	MHz	Vce=-12V , le=0.5A
Output capacitance	Cob		80	—	ρF	Vce=-10V , le=0A , f=1MHz

(90-173-B97)

Power Transistor (80V, 4A)

2SC4008

- 1) Low VcE(sal). (Typ. 0.3V at Ic/Ib=2/0.2A)
- 2) Excellent DC current gain characteristics.
- 3) Pc =30W(Tc=25℃)
- 4) Wide SOA (safe operating area).
- 5) Complements the 2SA1635.

●Packaging specifications and hFE

Туре	2SC4008
Package	TO-220FP
hre	EFG
Code	_
Basic ordering unit (pieces)	500

●Absolute maximum ratings (Ta=25℃)

Perameter	Symbol	Umita	Unit	
Collector-base voltage	Vcso	100	V	
Collector-emitter voltage	Voeo	80	٧	
Emitter-base voltage	VEBO	6	٧	
Callector current		4	A(DC)	
	lc	6	A(Pulse) *	
Collector power dissipation	Pc	2	W	
	PC	30	W(Tc=25℃)	
Junction temperature	T}	150	rc	
Storage temperature	Tstg	−65 ~150	Ċ	

^{*} Sigle pulse Pw=100ms

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	100	_		V	lc==50 μ A	
Collector-emitter breakdown voltage	BVceo	80	_		V	lc=25mA	
Emitter-base breakdown voltage	ВУево	6		_	V	IE=50 μA	
Collector cutoff current	Iceo	-		10	μA	Vce=100V	
Emitter cutoff current	leso	_	_	10	μA	VER-6V	
Collector-emitter saturation voltage	V _{CE(sal)}		_	1	V	Ic/Is=2A/0.2A	*
Base-emitter saturation voltage	Vac(sat)	-		1.5	V	lc/le=2A/0.2A	*
DC current transfer ratio	hre	100	_	500		Vce/lc=4V/1A	
Transition frequency	fr		10	_	MHz	Vc=12V , I=-0.2A , f=5MHz	*
Output capacitance	Cob		60		pF	Vos=10V , Is=0A , f=1MHz	

Measured using pulse current.

(94L-646-D97)

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