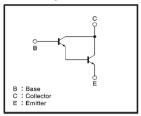
Medium Power Transistor (60V, 1A)

2SD1834

Features

- 1) Darlington connection for high DC current gain. (typically, DC current gain=15000 at VcE=3V, lc=0.5A)
- 2) High input impedance.

Circuit diagram



●Absolute maximum ratings (Ta=25℃)

	1011	11. 11	11.74	
Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	60	V	
Collector-emitter voltage	Vces	60	V	*2
Emitter-base voltage	VEBO	7	V	
Collector current	Ic	1	A (DC)	
	IC IC	2	A (Pulse)	*1
Collector power dissipation	Pc	0.5	w	
Junction temperature	Tj	150	°C	
Storage temperature	Tstq	-55~+150	°C	

^{*1} Single pulse Pw=100ms *2 Re==0Ω

●Packaging specifications and hre

Туре	2SD1834
Package	MPT3
hfe	2k~
Marking	DE*
Code	T100
Basic ordering unit (pieces)	1000

★ Denotes here

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	60	_	_	V	Ic=50 μ A	
Collector-emitter breakdown voltage	BVceo	60	_	_	V	Ic=100 μ A , RsE=0 Ω	
Emitter-base breakdown voltage	ВУЕВО	7	_	_	V	Iε=50 μ A	
Collector cutoff current	Ісво	_	_	1	μA	Vce=60V	
Emitter cutoff current	IEBO	_	_	1	μА	VEB=6V	
DC current transfer ratio	hee	2000	_	_	_	Vce/lc=3V/500mA	*
Collector-emitter saturation voltage	VCE(sat)	_	0.9	1.5	V	Ic/Iв=500mA/500 μ A	
Output capacitance	Cob	_	7	_	pF	Vcs=10V, Is=0A, f=1MHz	

^{*} Measured using pulse current.

(94S-340-D64)

Muting Transistor (15V, 1A)

2SD1468S / 2SD1865

Features

- 1) Low saturation voltage, typically VcE(sat) =0.006V at Ic / IB=1mA / 0.1mA.
- 2) Ideal for low voltage, high current drives.
- 3) High DC current gain and high current.

●Absolute maximum ratings (Ta=25°C)

eter	Symbol Limits		Unit	
Collector-base voltage		30	٧	
Collector-emitter voltage		15	V	
Emitter-base voltage		5	V	
Collector current		1	Α	
2SD1468S	Pc	0.3		w
2SD1865		0.6	VV	
Junction temperature		150	ů	
Storage temperature		-55~+150	°C	
	age bitage ge 2SD1468S 2SD1865 ire	age Vcso oltage Vcso yes VESO lc lc lc 2SD1468S 2SD1865 Pc Tj	age Vceo 30 bitage Vceo 15 ge VEEO 5 IC 1 2SD1468S PC 0.6 III 150	

●Packaging specifications and hre

Туре	2SD1468S	2SD1865	
Package	SPT	ATV	
hfE	QRS	QR	
Code	TP	TV2	
Basic ordering unit (pieces)	5000	2500	

●Electrical characteristics (Ta=25°C)

Parameter		Symbol	Mìn.	Тур.	Max.	Unit	Conditions
Collector-base breakdow	n voltage	ВУсво	30	_	_	V	Ic=50 μ A
Collector-emitter breakde	own voltage	BVceo	15	_	_	V	Ic=1mA
Emitter-base breakdown	voltage	BVEBO	5	_	_	V	Iε=50 μ A
Collector cutoff current		Ісво	_	_	0.5	μА	VcB=20V
Emitter cutoff current		IEво	_	_	0.5	μA	V _{EB} =4V
Collector-emitter saturati	on voltage	VCE(sat)	_	0.08	0.4	V	Ic/Is=0.5A/50mA
DC accomment transfer water	2SD1468S	hee	120	_	560	_	Vce/lc=3V/0.1A
DC current transfer ratio	2SD1865	DFE	120	_	390	_	VCE/IC=3V/0.1A
Transition frequency		f⊤	50	150	_	MHz	VoE=5V , IE=-50mA , f=100MHz
Output capacitance		Cob	_	15	30	pF	Vcs=10V , IE=0A , f=1MHz

(94L-767-D65)



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