High-voltage Switching Transistor (Camera strobes and Telephone, Power supply) (-400V, -0.1A)

Features

- 1) High breakdown voltage. (BVcEo=-400V)
- 2) Low saturation voltage, typically V_{CE(sat)} = -0.2V at Ic / I_B= -20mA / -2mA.
- 3) High switching speed, typically tf=1 μ s at lc=100mA.
- 4) Wide SOA (safe operating area).
- 5) Complements the 2SA4505.

Packaging specifications and hre

Туре	2SA1759
Package	MPT3
hee	Р
Marking	AH*
Code	T100
Basic ordering unit (pieces)	3000

* Denotes her

● Electrical characteristics (Ta=25°C)

● Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-400	V	
Collector-emitter voltage	VCEO	-400	V	
Emitter-base voltage	VEBO	-7	V	
Collector current	Ic	-0.1	A(DC)	
		-0.2	A (Pulse) *1	
0-111	Pc	0.5	w	
Collector power dissipation	PC	2 *2	l vv	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	ొ	

- ★1 Single pulse, Pw=100ms
- *2 When mounted on a 40×40×0.7 mm ceramic board

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-400	_	_	V	Ic=-50 μ A
Collector-emitter breakdown voltage	BVceo	-400	_	_	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-7	_	_	V	Iε=-50 μA
Collector cutoff current	Ісво	_	_	-10	μΑ	Vc8=-400V
Emitter cutoff current	lebo		_	-10	μΑ	V _{EB} =-6V
Collector-emitter saturation voltage	VCE(sat)		-0.2	-0.5	V	Ic/Is=-20mA/-2mA
Base-emitter saturation voltage	V _{BE(sat)}	_	_	-1.2	V	Ic/Is=-20mA/-2mA
DC current transfer ratio	hre	82	_	180	_	VoE=-10V, lo=-10mA
Transition frequency	f⊤	_	12	_	MHz	VcE=-10V, lE=10mA, f=5MHz
Output capacitance	Cob		13	_	pF	VcB=-10V, IE=0A, f=1MHz
Turn-on time	ton	_	0.7	_	μS	Ic=-100mA RL=1.5kΩ
Storage time	tsig	—	1.8	_	μS	I _{B1} =-I _{B2} =-10mA
Fall time	tr	_	1	_	μS	Vcc~-150V

(96-97-A324)

Power Transistor (400V, 0.1A)

2SC4505 / 2SC4620

Features

- 1) High breakdown voltage. (BVcEo=400V)
- 2) Low saturation voltage, typically VcE(sat) =0.05V at Ic / Ib=10mA / 1mA.
- 3) High switching speed, typically tf=1.7 μs at Ic=100mA
- 4) Complements the 2SC4505 and the 2SA1759.

Packaging specifications and hre

Туре	2SC4505	2SC4620	
Package	MPT3	ATV	
hfE	PQ	Q	
Marking	CE*	_	
Code	T 100	TV2	
Basic ordering unit (pieces)	1000	2500	

[★] Denotes hre

■ Absolute maximum ratings (Ta=25°C)

	-					
Parameter		Symbol Limits		Unit		
Collector-base voltage		Vceo	400	V		
Collector-emitter v	Collector-emitter voltage		400	V		
Emitter-base volta	Emitter-base voltage		mitter-base voltage		7	V
Collector current		lc	0.1	A		
		ICP	0.2	A *		
Collector power 2SC4505			0.5	w		
dissipation	2SC4620	Pc	1	\ \v		
Junction temperature		Tj	150	°C		
Storage temperature		Tsta	-55~ + 150	°C		

^{*} Single pulse Pw=20ms Duty=1/2

● Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	400	_	_	V	Ic=50 μ A
Collector-emitter breakdown voltage	BVceo	400	_	_	V	Ic=1mA
Emitter-base breakdown voltage	ВУево	7	_	_	V	Iε=50 μ A
Collector cutoff current	Ісво	_	_	10	μА	Vc8=400V
Emitter cutoff current	lebo	_	_	10	μΑ	VEB=6V
Collector-emitter saturation voltage	VCE(sat)	_	0.05	0.5	V	Ic=10mA , Is=1mA
Base-emitter saturation voltage	VBE(sat)	_	_	1.5	V	Ic=10mA , Is=1mA
DC current transfer ratio	hfe	82	_	270	_	Vce/lc=10V/10mA
Transition frequency	f⊤	_	20	_	MHz	VcE=10V, IE=-10mA, f=10MHz
Output capacitance	Cob	_	7	_	pF	Vcs=10V, IE=0A, f=1MHz
Turn-on time	ton	_	1	_	μs	Ic=100mA
Storage time	tsig	_	5.5	_	μs	I _{B1} =-I _{B2} =10mA
Fall time	tf	_	1.7	_	μS	Vcc <u>~</u> −150V

(96-178-C300)



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