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2SC4500(L)/(S)

Silicon NPN Epitaxial

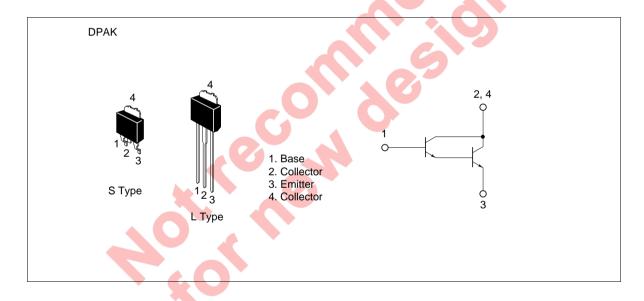


ADE-208-894 (Z) 1st. Edition September 2000

Application

Low frequency amplifier

Outline



2SC4500(L)/(S)

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

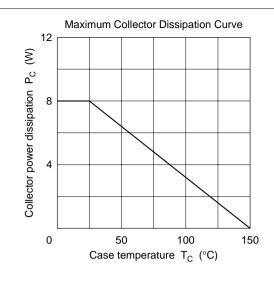
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	60	V
Collector to emitter voltage	V_{CEO}	60	V
Emitter to base voltage	$V_{\scriptscriptstyle{EBO}}$	7	V
Collector current	I _c	1	A
Collector peak current	C (peak)	2	Α
Collector power dissipation	P _c	P _c 0.8	
	P _c *1	8	
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

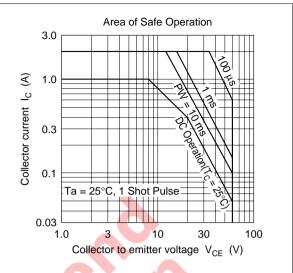
Note: 1. Value at $T_c = 25^{\circ}C$.

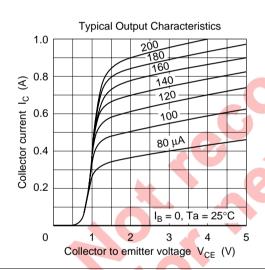
Electrical Characteristics ($Ta = 25^{\circ}C$)

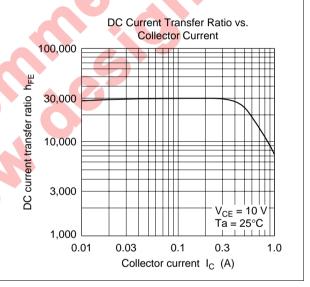
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	60		Z	V	I_{C} = 1 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	7	_	O	V	$I_{\rm E} = 0.1 \text{mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	-	A	10	μΑ	$V_{CB} = 60 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE}	2000		_		$V_{CE} = 10 \text{ V}, I_{C} = 500 \text{ mA}^{*1}$
Collector to emitter saturation voltage	V _{CE (sat)}	V	_	1.5	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{\sf BE\ (sat)}$		_	2.0	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 0.5 \text{ mA}^{*1}$
Turn on time	ton	_	100	_	ns	$V_{CC} = 12 \text{ V, IC} = 250 \text{ mA},$
Turn off time	t _{off}	_	600	_	ns	$I_{B1} = -I_{B2} = 5 \text{ mA}$

Note: 1. Pulse Test.

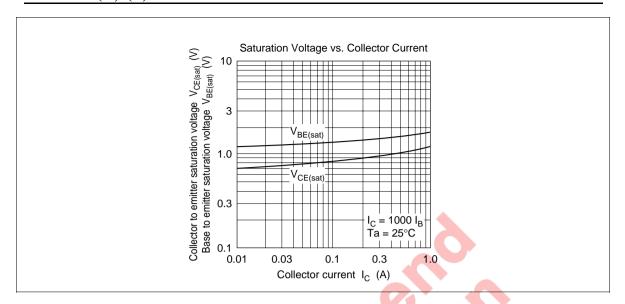








2SC4500(L)/(S)



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HITACHI

Hitachi, Ltd.

Semiconductor & IC Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100, Japan

Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

For further information write to:

Hitachi America, Ltd. Semiconductor & IC Div. 2000 Sierra Point Parkway Brisbane, CA. 94005-1835 U S A

Tel: 415-589-8300 Fax: 415-583-4207 Hitachi Europe GmbH Electronic Components Group Continental Europe Dornacher Straße 3 D-85622 Feldkirchen München Tel: 089-9 91 80-0

Fax: 089-9 29 30 00 United Kingdom Tel: 0628-585000 Fax: 0628-778322

Hitachi Europe Ltd.
Electronic Components Div.
Northern Europe Headquarters
Whitebrook Park
Lower Cookham Road
Maidenhead
Berkshire SL6 8YA
United Kingdom

Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 0104 Tel: 535-2100 Fax: 535-1533

Hitachi Asia (Hong Kong) Ltd. Unit 706, North Tower, World Finance Centre, Harbour City, Canton Road Tsim Sha Tsui, Kowloon Hong Kong

Tel: 27359218 Fax: 27306071

