2SC4500(L)/(S)

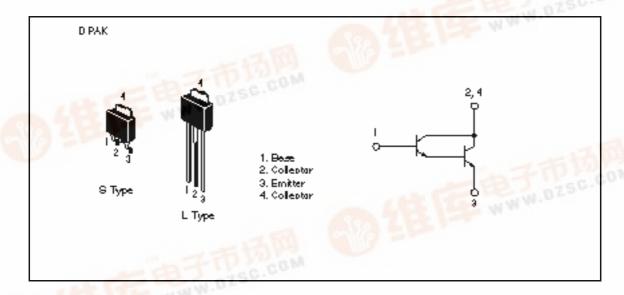
Silicon NPN Epitaxial

HITACHI

Application

WWW.DZSC Low frequency amplifier

Outline





2SC4500(L)/(S)

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

Symbol	Ratings	Unit
V_{CBO}	60	V
V _{CEO}	60	V
V_{EBO}	7	V
I _c	1	А
C (peak)	2	А
P _c	0.8	W
P _c *1	8	
Tj	150	°C
Tstg	-55 to +150	°C
	V_{CBO} V_{CEO} V_{EBO} I_{C} $I_{C (peak)}$ P_{C} P_{C}^{*1} Tj	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

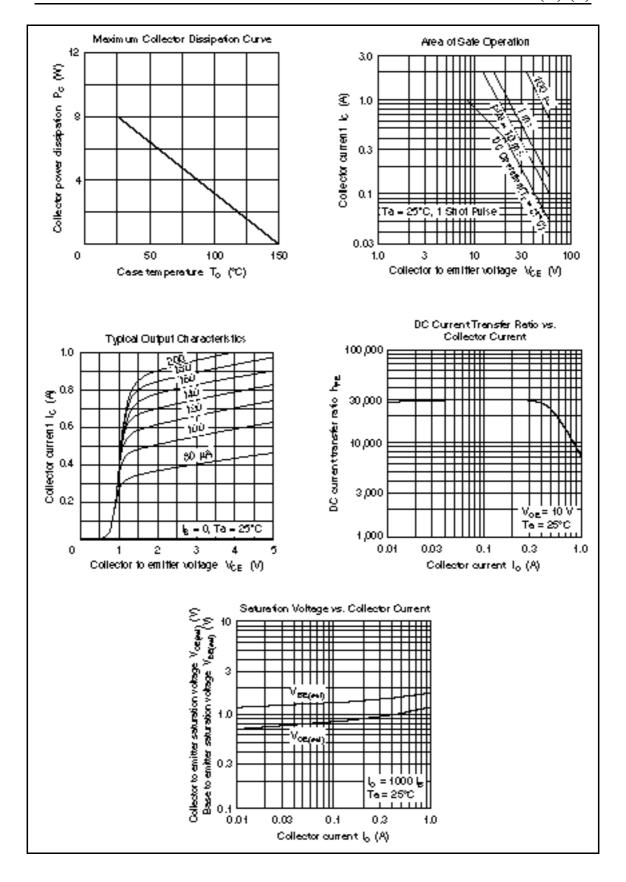
Note: 1. Value at $T_c = 25$ °C.

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

Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	60	_	_	V	$I_C = 1 \text{ mA}, R_{BE} =$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	7	_	_	V	$I_{E} = 0.1 \text{ mA}, I_{C} = 0$
Collector cutoff current	I _{CBO}	_	_	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	$V_{\text{CE (sat)}}$	_	_	1.5	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{BE\;(sat)}$	_	_	2.0	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 0.5 \text{ mA}^{*1}$
Turn on time	t _{on}	_	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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