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2SC4500(L)/(S)

Silicon NPN Epitaxial

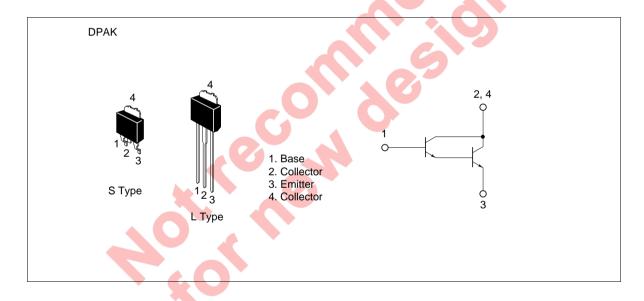


ADE-208-894 (Z) 1st. Edition September 2000

Application

Low frequency amplifier

Outline



2SC4500(L)/(S)

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

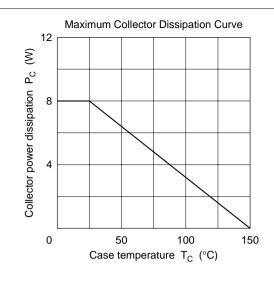
Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	60	V	
Collector to emitter voltage	V_{CEO}	60	V	
Emitter to base voltage	$V_{\scriptscriptstyle{EBO}}$	7	V	
Collector current	I _c	1	A	
Collector peak current	C (peak)	2	Α	
Collector power dissipation	P _c	P _c 0.8		
	P _c *1	8		
Junction temperature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

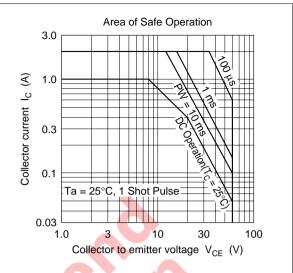
Note: 1. Value at $T_c = 25^{\circ}C$.

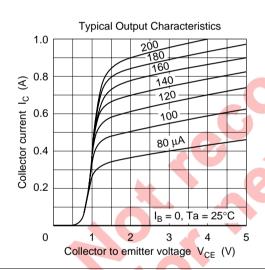
Electrical Characteristics ($Ta = 25^{\circ}C$)

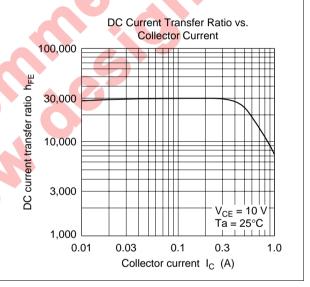
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	60		Z	V	$I_{C} = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	7	_	O	V	$I_{\rm E} = 0.1 \text{mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	-	A	10	μΑ	$V_{CB} = 60 \text{ V}, I_{E} = 0$
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	$V_{BE\;(sat)}$		_	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.

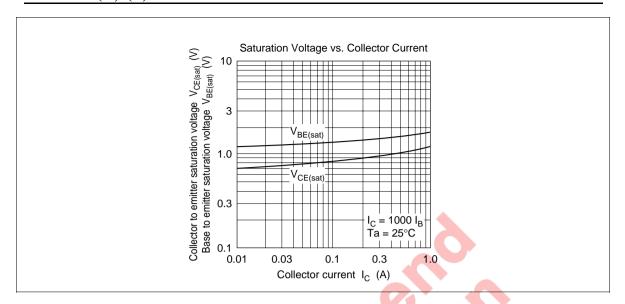








2SC4500(L)/(S)



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