



THE DATASHEET OF STA434A

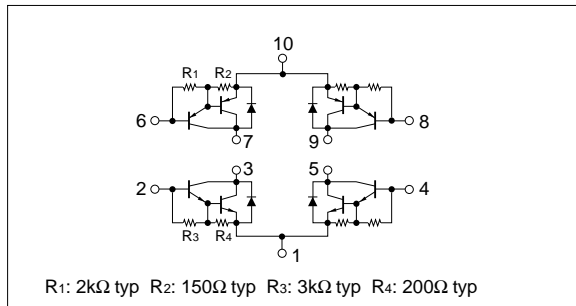


Absolute maximum ratings

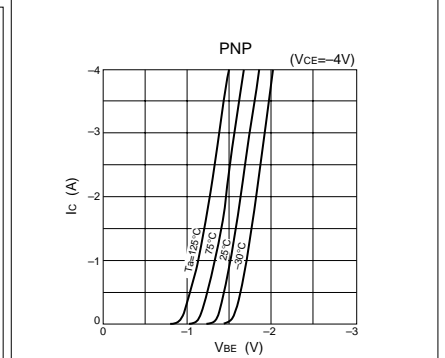
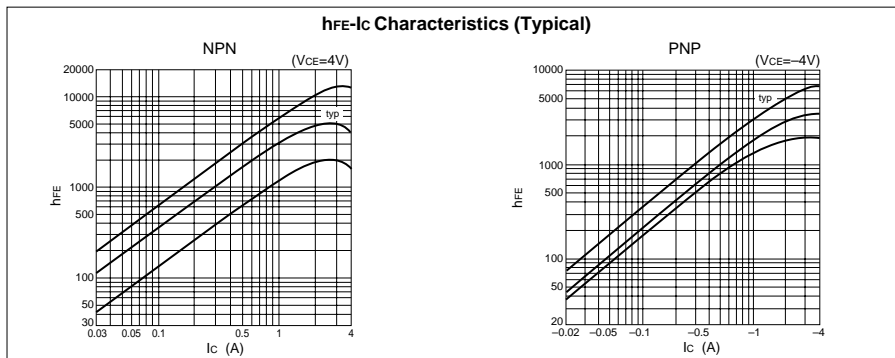
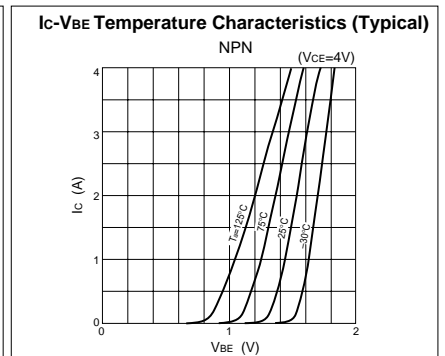
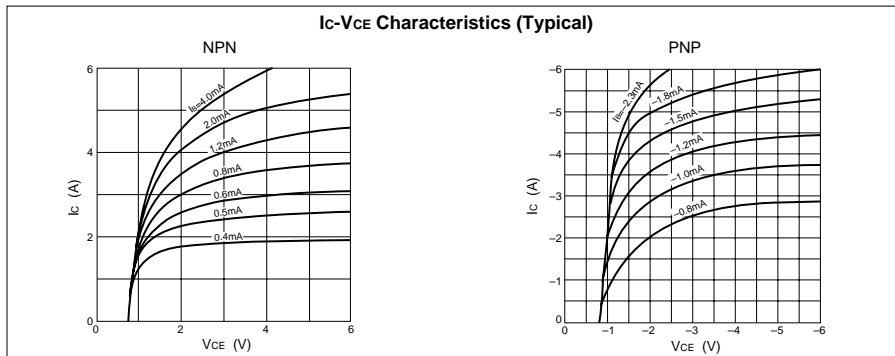
(Ta=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V _{CB0}	80	-60	V
V _{CEO}	60	-60	V
V _{EBO}	6	-6	V
I _c	4	-4	A
I _{cP}	8 (PW≤10ms, Du≤50%)		A
P _T	4 (Ta=25°C)		W
	20 (Tc=25°C)		
T _j	150		°C
T _{stg}	-40 to +150		°C

Equivalent circuit diagram



Characteristic curves

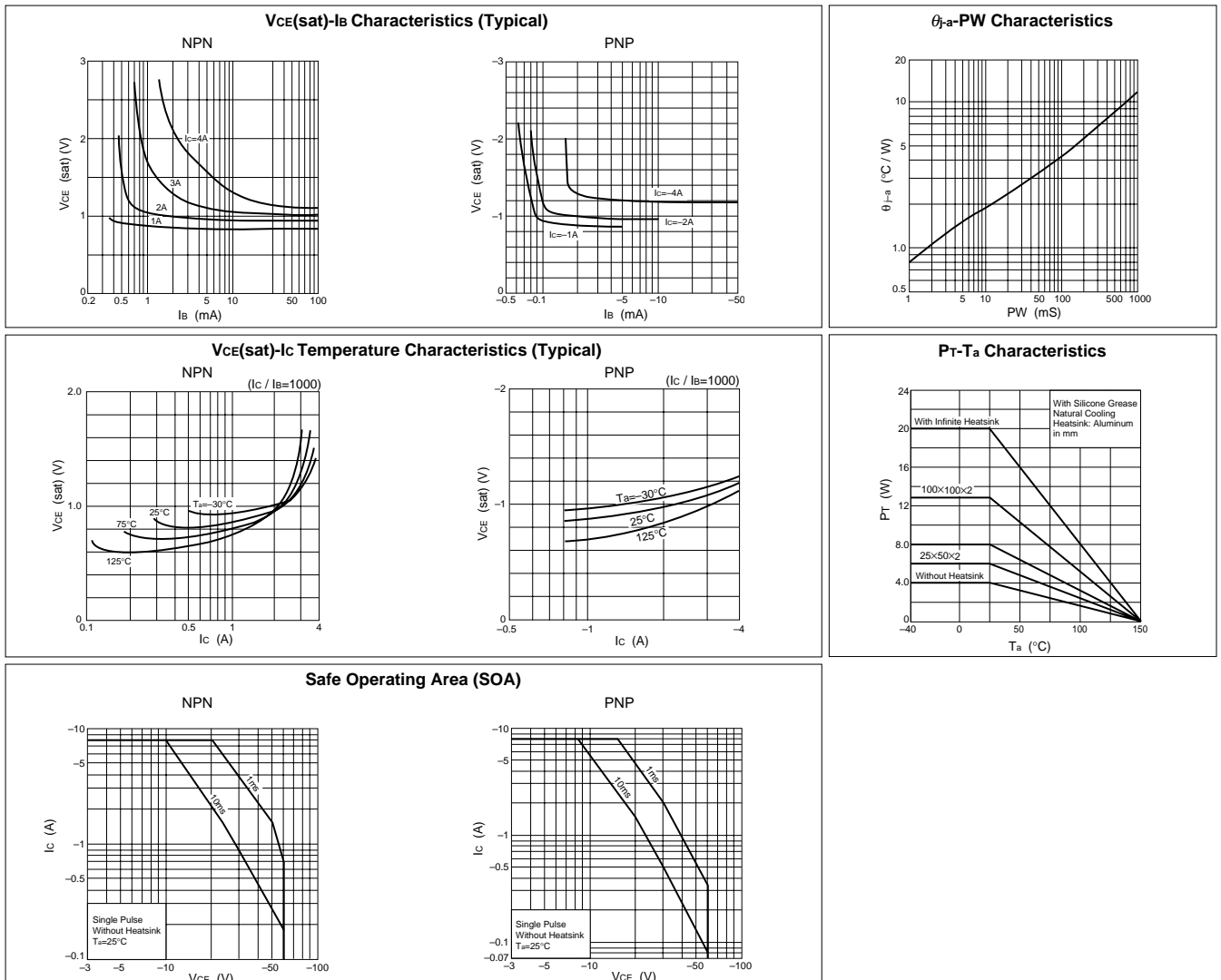


Electrical characteristics

($T_a=25^\circ\text{C}$)



Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I_{CBO}			100	μA	$V_{CB}=80\text{V}$			-100	μA	$V_{CB}=-60\text{V}$
I_{EBO}			10	mA	$V_{EB}=6\text{V}$			-10	mA	$V_{EB}=-6\text{V}$
V_{CEO}	60			V	$I_C=10\text{mA}$	-60			V	$I_C=-10\text{mA}$
hFE	1000				$V_{CE}=4\text{V}, I_C=3\text{A}$	1000				$V_{CE}=-4\text{V}, I_C=-3\text{A}$
$V_{CE}(\text{sat})$			2.0	V	$I_C=3\text{A}, I_B=10\text{mA}$			-2.0	V	$I_C=-2\text{A}, I_B=-10\text{mA}$
t_{on}		1.0		μs	$V_{CC} \doteq 30\text{V},$ $I_C=3\text{A},$ $I_{B1}=-I_{B2}=10\text{mA}$		0.4		μs	$V_{CC} \doteq -30\text{V},$ $I_C=-3\text{A},$ $I_{B1}=-I_{B2}=-10\text{mA}$
t_{stg}		4.0		μs			0.8		μs	
t_f		1.5		μs			0.6		μs	

Characteristic curves



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