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# STA322A

PNP  
 General purpose

External dimensions STA (8-pin)

## Absolute maximum ratings

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

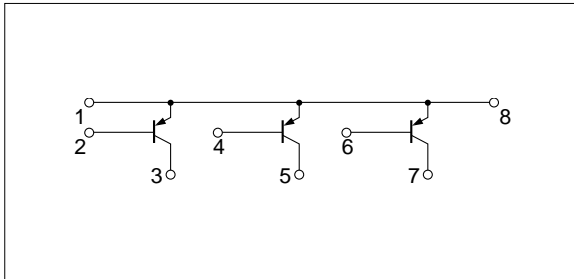
Symbol	Ratings	Unit
$V_{CB0}$	-50	V
$V_{CEO}$	-50	V
$V_{EBO}$	-5	V
$I_c$	-3	A
$I_{CP}$	-5 ( $PW \leq 1\text{ms}$ , $D_u \leq 50\%$ )	A
$I_B$	-1	A
$P_T$	3 ( $T_a=25^\circ\text{C}$ )	W
	15 ( $T_c=25^\circ\text{C}$ )	
$T_j$	150	$^\circ\text{C}$
$T_{stg}$	-40 to +150	$^\circ\text{C}$

## Electrical characteristics

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

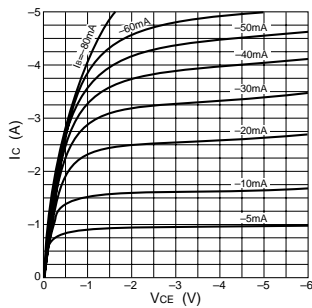
Symbol	Specification			Unit	Conditions
	min	typ	max		
$I_{CB0}$			-10	$\mu\text{A}$	$V_{CB}=-50\text{V}$
$I_{EBO}$			-10	$\mu\text{A}$	$V_{EB}=-8\text{V}$
$V_{CEO}$	-50			V	$I_c=-25\text{mA}$
$h_{FE}$	100		350		$V_{CE}=-4\text{V}$ , $I_c=-1\text{A}$
$V_{CE(sat)}$			-1.0	V	$I_c=-2\text{A}$ , $I_b=-40\text{mA}$
$V_{BE(sat)}$			-1.5	V	

## Equivalent circuit diagram

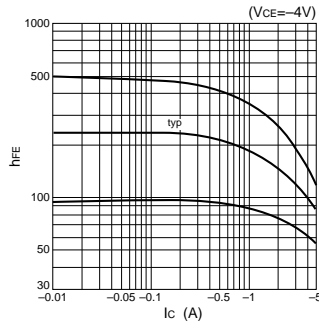


## Characteristic curves

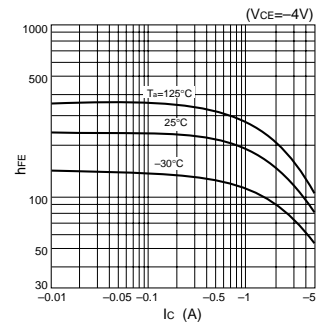
$I_c$ - $V_{CE}$  Characteristics (Typical)



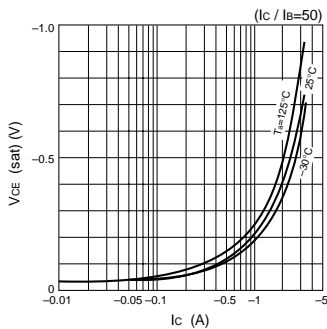
$h_{FE}$ - $I_c$  Characteristics (Typical)



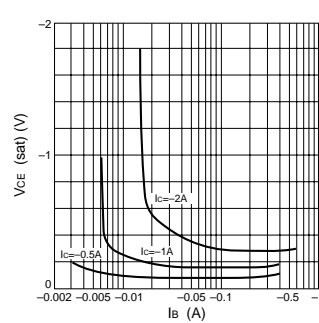
$h_{FE}$ - $I_c$  Temperature Characteristics (Typical)



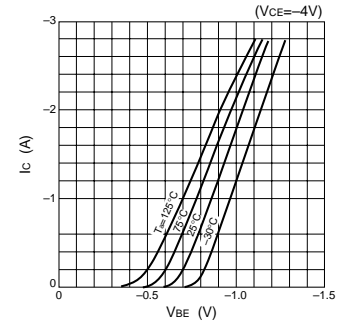
$V_{CE(sat)}$ - $I_c$  Temperature Characteristics (Typical)



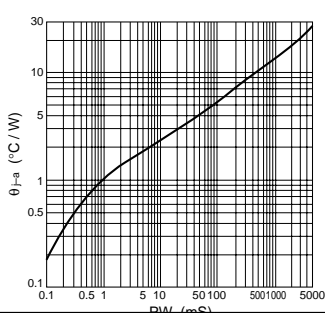
$V_{CE(sat)}$ - $I_b$  Characteristics (Typical)



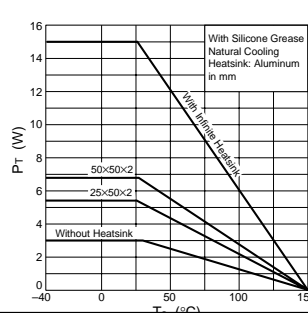
$I_c$ - $V_{BE}$  Temperature Characteristics (Typical)



$\theta_{j-a}$ - $PW$  Characteristics



$P_T$ - $T_a$  Characteristics



Safe Operating Area (SOA)

