

# STA485A

查询STA485供应商

NPN Darlington

捷多邦, 专业PCB打样工厂, 24小时加急出货

With built-in avalanche diode

External dimensions  $\text{D} \cdots$  STA400

## Absolute maximum ratings

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

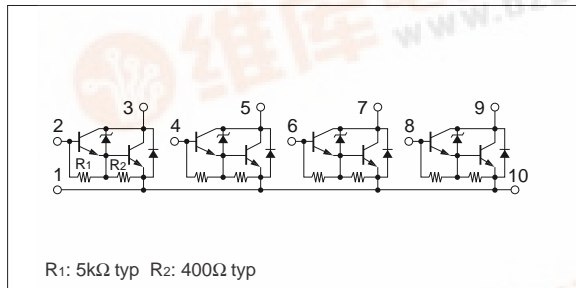
Symbol	Ratings	Unit
$V_{CB0}$	100 $\pm$ 15	V
$V_{CE0}$	100 $\pm$ 15	V
$V_{EBO}$	6	V
$I_c$	1	A
$I_{CP}$	2.5 (PW $\leq$ 1ms, Du $\leq$ 25%)	A
$I_B$	0.5	A
$P_T$	4 ( $T_a=25^\circ\text{C}$ )	W
	16 ( $T_c=25^\circ\text{C}$ )	
$T_j$	150	$^\circ\text{C}$
$T_{stg}$	-40 to +150	$^\circ\text{C}$

## Electrical characteristics

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

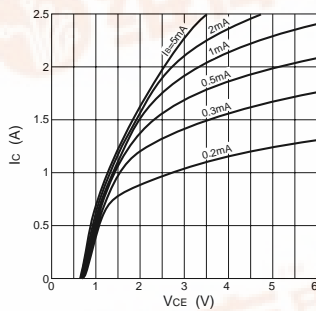
symbol	Specification			Unit	Conditions
	min	typ	max		
$I_{CBO}$			10	$\mu\text{A}$	$V_{CB}=85\text{V}$
$I_{EBO}$			3	mA	$V_{EB}=6\text{V}$
$V_{CE0}$	85	100	115	V	$I_c=1\text{mA}$
$h_{FE}$	2000	5000	10000		$V_{CE}=4\text{V}$ , $I_c=0.5\text{A}$
$V_{CE}(\text{sat})$		1.0	1.5	V	$I_c=0.5\text{A}$ , $I_B=1\text{mA}$
$V_{BE}(\text{sat})$		1.6	2.2	V	
$V_{FEC}$		1.4	1.8	V	$I_{FEC}=0.5\text{A}$
$t_{on}$		0.5		$\mu\text{s}$	$V_{CC}=30\text{V}$ , $I_c=0.5\text{A}$ ,
$t_{stg}$		2.5		$\mu\text{s}$	
$t_f$		1.0		$\mu\text{s}$	$I_{B1}=-I_{B2}=1\text{mA}$
$f_T$		50		MHz	$V_{CE}=12\text{V}$ , $I_E=-0.1\text{A}$
$C_{ob}$		14		pF	$V_{CE}=10\text{V}$ , $f=1\text{MHz}$

## Equivalent circuit diagram

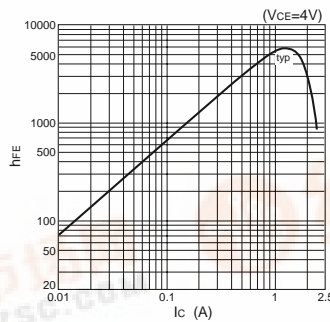


## Characteristic curves

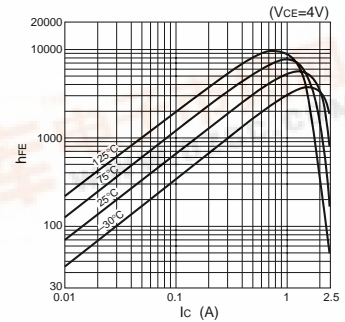
$I_c$ - $V_{CE}$  Characteristics (Typical)



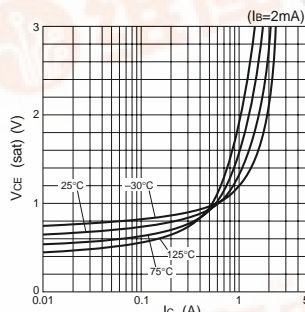
$h_{FE}$ - $I_c$  Characteristics (Typical)



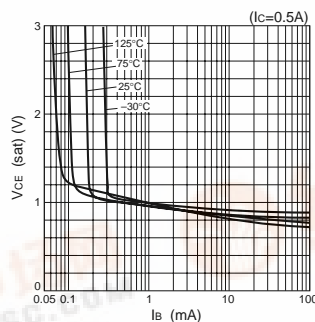
$h_{FE}$ - $I_c$  Temperature Characteristics (Typical)



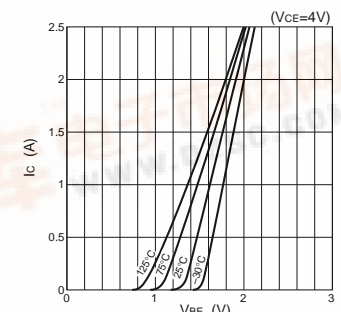
$V_{CE}(\text{sat})$ - $I_c$  Temperature Characteristics (Typical)



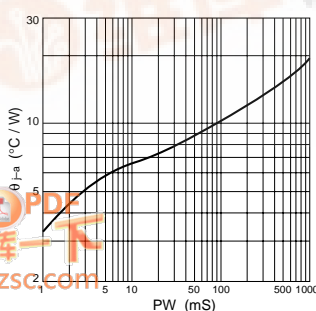
$V_{CE}(\text{sat})$ - $I_B$  Temperature Characteristics (Typical)



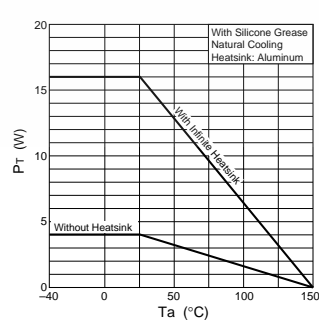
$I_c$ - $V_{BE}$  Temperature Characteristics (Typical)



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



$P_T$ - $T_a$  Characteristics



Safe Operating Area (SOA)

