## imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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# STA404A

#### NPN Darlington General purpose

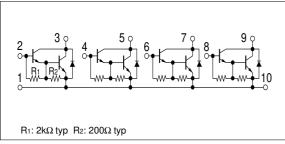
(Ta=25°C)

#### Absolute maximum ratings

	=	( )
Symbol	Ratings	Unit
Vсво	200	V
Vceo	200	V
Vebo	6	V
lc	3	Α
Іср	6 (PW≤10ms, Du≤50%)	A
Рт	4 (Ta=25°C)	
	20 (Tc=25°C)	W
Tj	150	°C
Tstg	-40 to +150	°C

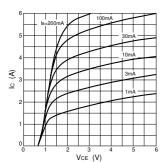
Electrical	characte	(Ta=25°C)			
Symbol	Specification			Unit	Conditions
Symbol	min	typ max offic	Unit	Conditions	
Ісво			100	μA	Vcb=200V
Іево			10	mA	Veb=6V
VCEO	200			V	Ic=10mA
hfe	1000				Vce=4V, Ic=1A
VCE(sat)			2.0	V	Ic=1A, I <sub>B</sub> =1.5mA

#### ■Equivalent circuit diagram

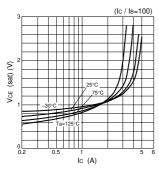


#### Characteristic curves

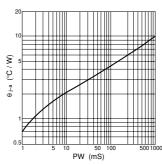
#### IC-VCE Characteristics (Typical)



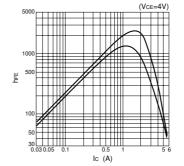
Vce(sat)-lc Temperature Characteristics (Typical)



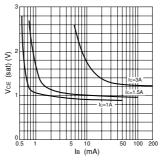
 $\theta_{j-a}$ -PW Characteristics



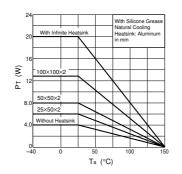
hFE-Ic Characteristics (Typical)



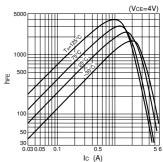
VCE(sat)-IB Characteristics (Typical)



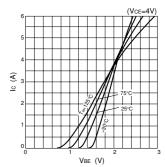
PT-Ta Characteristics



#### hFE-Ic Temperature Characteristics (Typical)



IC-VBE Temperature Characteristics (Typical)



Safe Operating Area (SOA)

