## 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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# STA322A

#### PNP General purpose

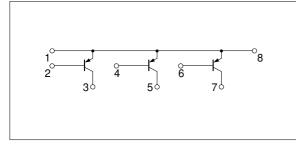
(Ta=25°C)

#### Absolute maximum ratings

	-	(	
Symbol	Ratings	Unit	
Vсво	50	V	
VCEO	-50	V	
Vево	-5	V	
lc	-3	A	
ICP	–5 (PW≤1ms, Du≤50%)	A	
Ів	-1	A	
Ρτ	3 (Ta=25°C)	- W	
	15 (Tc=25°C)		
Tj	150	°C	
Tstg	-40 to +150	°C	

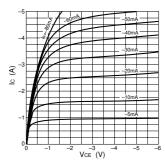
Electrical characteristics (Ta=25°C)							
Symbol	Specification			Unit	Conditions		
	min	typ	max	Unit	conditions		
Ісво			-10	μA	VCB=-50V		
Іево			-10	μA	Veb=-8V		
VCEO	-50			V	Ic=-25mA		
hfe	100		350		Vce=-4V, Ic=-1A		
Vce(sat)			-1.0	V	Ic=−2A. I <sub>B</sub> =−40mA		
VBE(sat)			-1.5	V	IC=-2A, IB=-4011A		

#### Equivalent circuit diagram

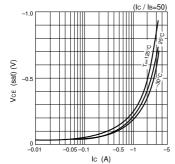


#### Characteristic curves

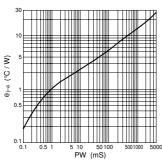
IC-VCE Characteristics (Typical)

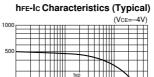


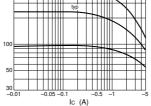
VCE(sat)-Ic Temperature Characteristics (Typical)



θj-a-PW Characteristics

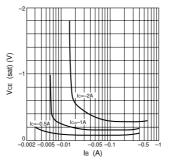




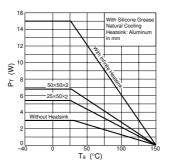


hFE

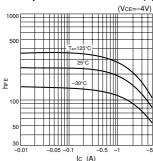
VCE(sat)-IB Characteristics (Typical)



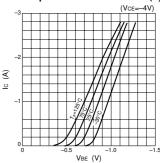
PT-Ta Characteristics



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



IC-VBE Temperature Characteristics (Typical)



Safe Operating Area (SOA)

