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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STA472A

PNP Darlington General purpose

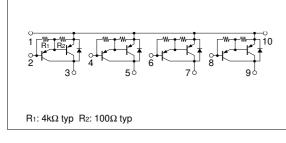
(Ta=25°C)

Absolute maximum ratings

	=	(= =)
Symbol	Ratings	Unit
Vсво	-60	V
VCEO	-60	V
Vево	-6	V
lc	-2	Α
ICP	–4 (PW≤1ms, Du≤25%)	A
Ів	-0.5	A
Рт	4 (Ta=25°C)	14/
	20 (Tc=25°C)	- W
Tj	150	°C
Tstg	-40 to +150	°C

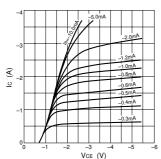
Electrical characteristics (Ta=25°C)								
Symbol	Specification			Unit	Conditions			
	min	typ	max	Unit	Conditions			
Ісво			-10	μΑ	Vcb=-60V			
Іево			-5	mA	Veb=-6V			
VCEO	-60			V	Ic=-10mA			
hfe	2000	4000	10000		Vce=-4V, Ic=-1A			
Vce(sat)		-1.2	-1.5	V	Ic=-1А, Iв=-2mА			
VBE(sat)		-1.9	-2.2	V				
VFEC		-1.3	-1.8	V	IFEC=-1A			
ton		0.4		μs	Vcc≒–30V,			
tstg		1.0		μs	lc=-1A,			
tf		0.4		μs	Iв1=—Iв2=—2mA			
fт		100		MHz	Vce=12V, Ie=-0.1A			
Cob		30		pF	Vсв=10V, f=1MHz			

Equivalent circuit diagram

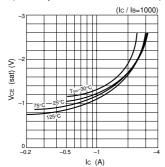


Characteristic curves

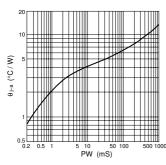
IC-VCE Characteristics (Typical)

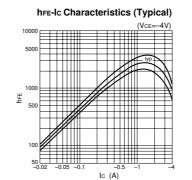


VCE(sat)-Ic Temperature Characteristics (Typical)

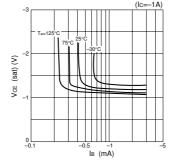


θj-a-PW Characteristics

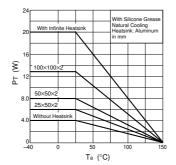




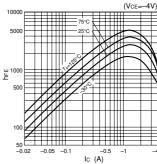
VCE(sat)-IB Temperature Characteristics (Typical)



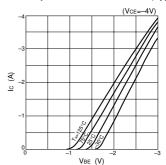
PT-Ta Characteristics



hFE-Ic Temperature Characteristics (Typical)



IC-VBE Temperature Characteristics (Typical)



Safe Operating Area (SOA)

