STA305A

查询STA305供应商

PNP Darlington

3-phase motor drive

捷多邦，专业PCB打样工厂，24小时加急出货

External dimensions Ⓒ···STA300

Absolute maximum ratings

(Ta=25°C)

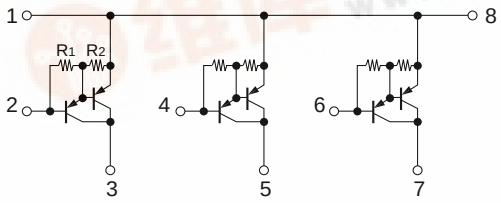
Symbol	Ratings	Unit
V_{CBO}	–550	V
V_{CEO}	–550	V
V_{EBO}	–6	V
I_C	–1	A
I_{CP}	–2 (PW≤1ms, Du≤25%)	A
I_B	–0.5	A
P_T	3 (Ta=25°C)	W
	15 (Tc=25°C)	
Tj	150	°C
Tstg	–40 to +150	°C

Electrical characteristics

(Ta=25°C)

Symbol	Specification min	typ	max	Unit	Conditions
I_{CBO}			–100	μA	V_{CB}=–550V
I_{EBO}		–10	–20	mA	V_{EB}=–6V
V_{CEO}	–550			V	I_C=–100μA
h_{FE}	200	400	1000		V_{CE}=–4V, I_C=–500mA
V_{CE}(sat)		–1.0	–1.5	V	I_C=–500mA, I_B=–10mA
V_{BE}(sat)		–1.6	–2.2	V	
ton		0.7		μs	V_{CC}≒–200V,
tstg		13.0		μs	I_C=–500mA,
tf		2.5		μs	I_{B1}=–I_{B2}=–10mA
f_T		15		MHz	V_{CE}=–12V, I_E=0.2A
Cob		48		pF	V_{CB}=–10V, f=1MHz

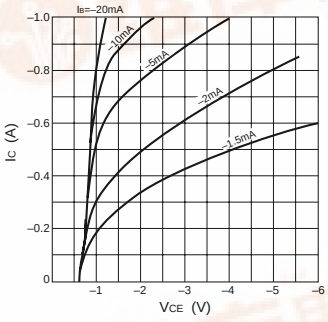
■Equivalent circuit diagram



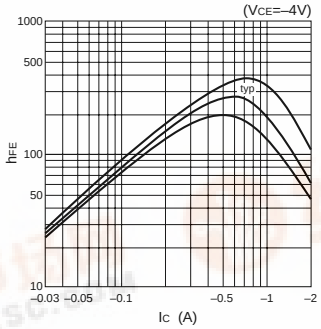
R1: 500Ω typ R2: 70Ω typ

Characteristic curves

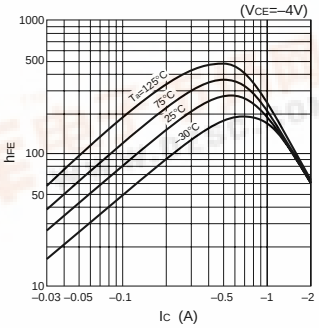
IC-VCE Characteristics (Typical)



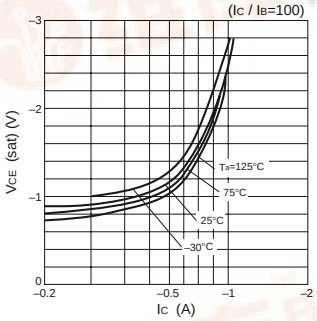
hFE-IC Characteristics (Typical)



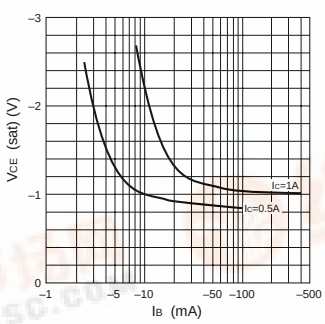
hFE-IC Temperature Characteristics (Typical)



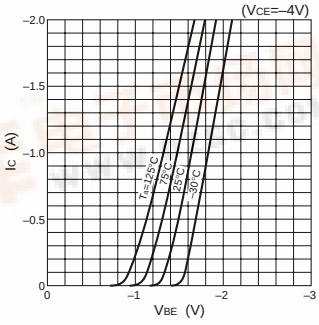
VCE(sat)-IC Temperature Characteristics (Typical)



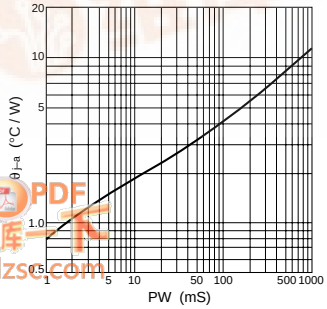
VCE(sat)-IB Characteristics (Typical)



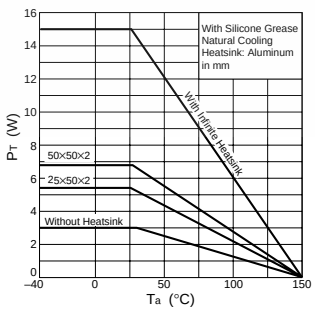
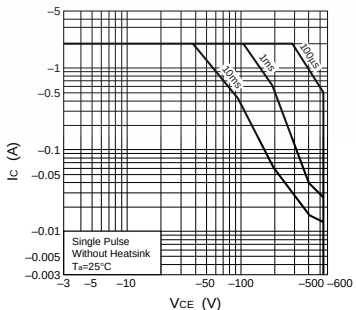
IC-VBE Temperature Characteristics (Typical)



θj-a-PW Characteristics



PT-Ta Characteristics



Safe Operating Area (SOA)