STA322A

PNP

General purpose

External dimensions Ⓒ ··· STA (8-pin)

Absolute maximum ratings

(Ta=25°C)

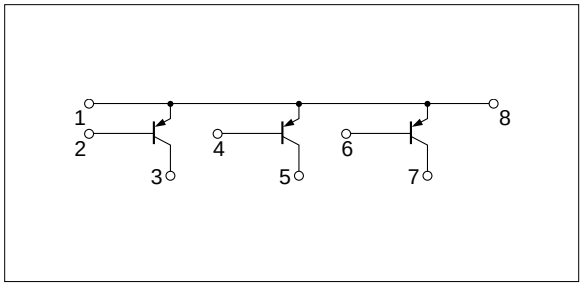
Symbol	Ratings	Unit
V_{CBO}	–50	V
V_{CEO}	–50	V
V_{EBO}	–5	V
I_C	–3	A
I_{CP}	–5 (PW≤1ms, Du≤50%)	A
I_B	–1	A
P_T	3 (Ta=25°C)	W
	15 (Tc=25°C)	
T_j	150	°C
T_{stg}	–40 to +150	°C

Electrical characteristics

(Ta=25°C)

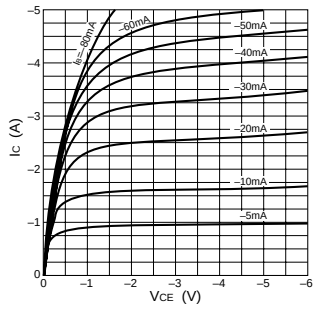
Symbol	Specification			Unit	Conditions
	min	typ	max		
I_{CBO}			–10	μA	V_{CB}=–50V
I_{EBO}			–10	μA	V_{EB}=–8V
V_{CEO}	–50			V	I_C=–25mA
h_{FE}	100		350		V_{CE}=–4V, I_C=–1A
V_{CE}(sat)			–1.0	V	I_C=–2A, I_B=–40mA
V_{BE}(sat)			–1.5	V	

■Equivalent circuit diagram

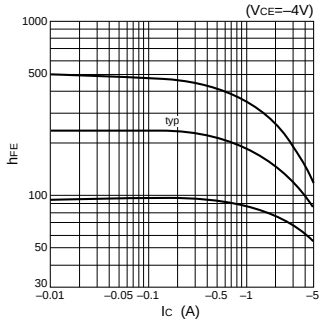


Characteristic curves

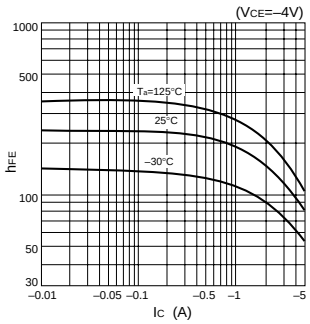
I_C-V_{CE} Characteristics (Typical)



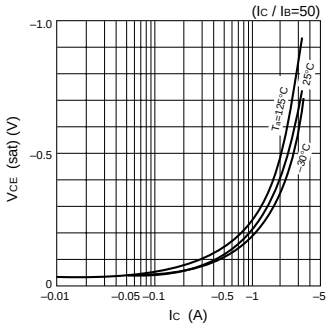
h_{FE}-I_C Characteristics (Typical)



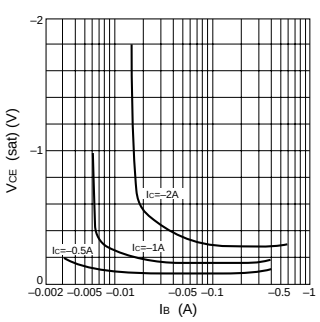
h_{FE}-I_C Temperature Characteristics (Typical)



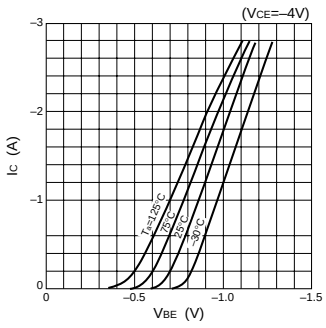
V_{CE}(sat)-I_C Temperature Characteristics (Typical)



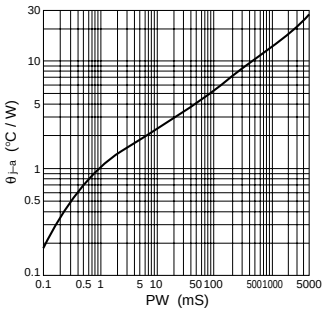
V_{CE}(sat)-I_B Characteristics (Typical)



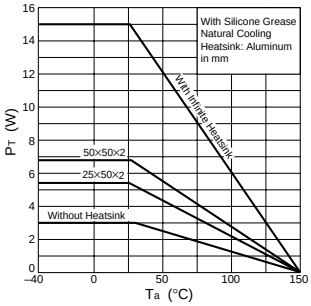
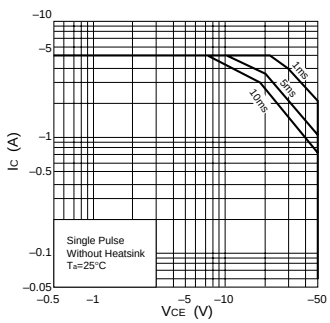
I_C-V_{BE} Temperature Characteristics (Typical)



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



P_T-T_a Characteristics



Safe Operating Area (SOA)