

Absolute maximum ratings

(Ta=25°C)

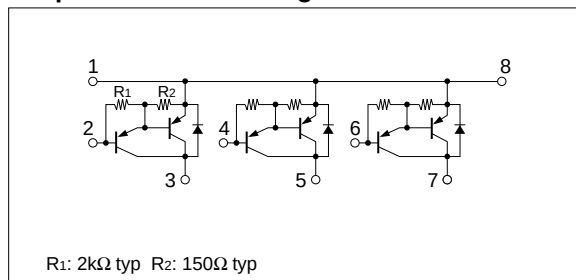
Symbol	Ratings	Unit
V _{CB0}	-50	V
V _{CEO}	-50	V
V _{EBO}	-6	V
I _C	-4	A
I _{CP}	-8 (PW≤10ms, Du≤50%)	A
P _T	3 (Ta=25°C) 15 (Tc=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

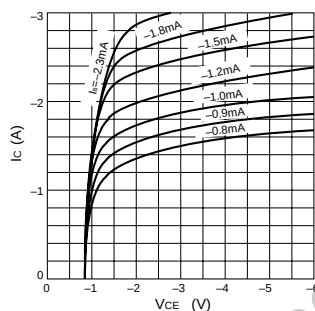
Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CB0}			-100	μA	V _{CB} =-50V
I _{EBO}			-10	mA	V _{EB} =-6V
V _{CEO}	-50			V	I _C =-10mA
h _{FE}	1000				V _{CE} =-4V, I _C =-3A
V _{CE(sat)}			-2.0	V	I _C =-3A, I _B =-10mA
t _{on}		0.4		μs	V _{CC} =-30V, I _C =-3A,
t _{stg}		0.8		μs	I _{B1} =-I _{B2} =-10mA
t _f		0.6		μs	

Equivalent circuit diagram

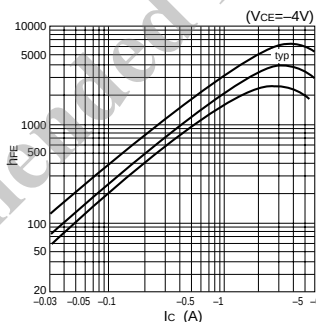


Characteristic curves

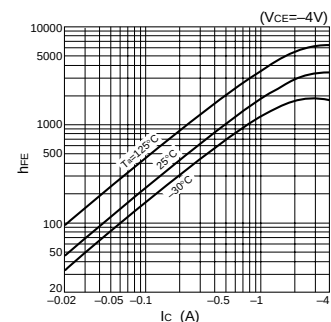
I_C-V_{CE} Characteristics (Typical)



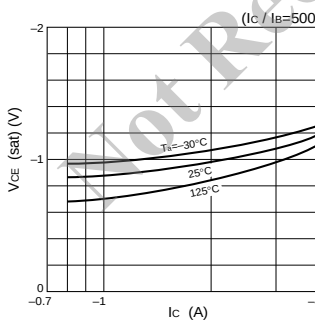
h_{FE}-I_C Characteristics (Typical)



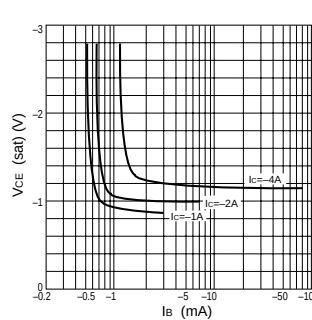
h_{FE}-I_C Temperature Characteristics (Typical)



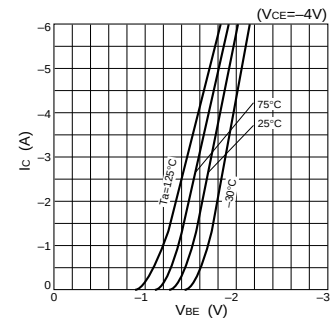
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



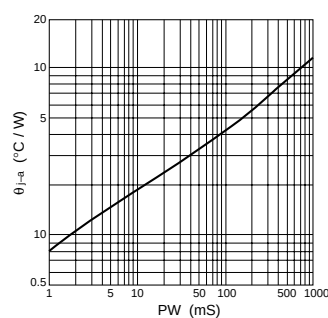
V_{CE(sat)}-I_B Characteristics (Typical)



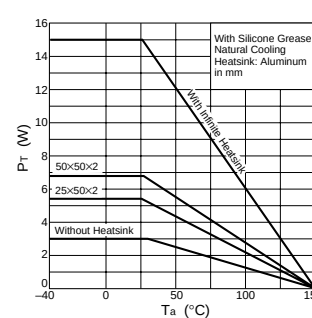
I_C-V_{BE} Temperature Characteristics (Typical)



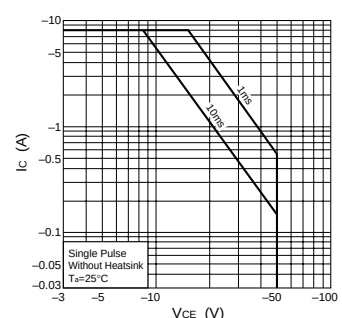
θ_{J-a}-PW Characteristics



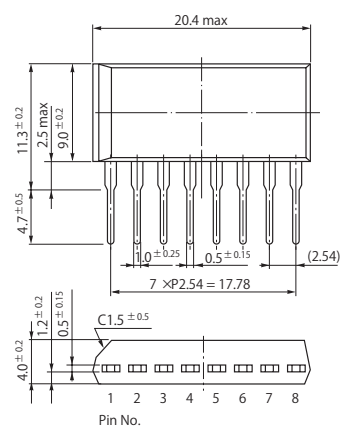
Pr-Ta Characteristics



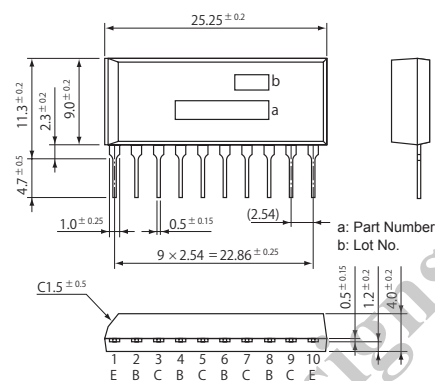
Safe Operating Area (SOA)



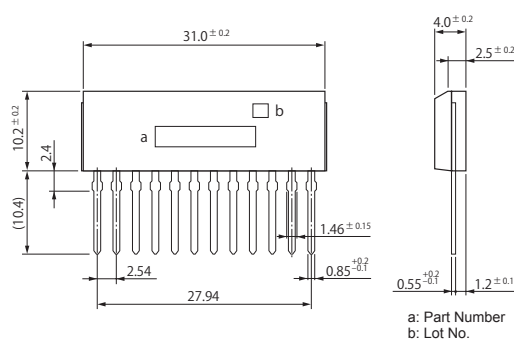
• SIP 8 (STA8Pin)



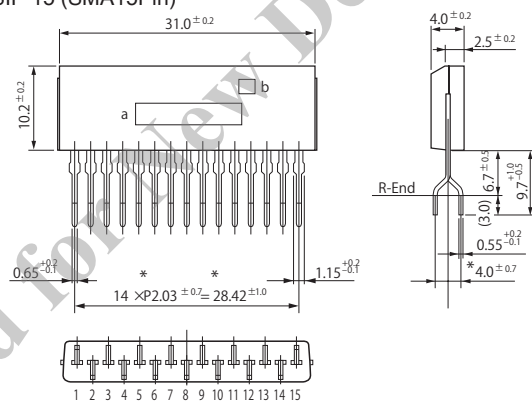
• SIP 10 (STA10Pin)



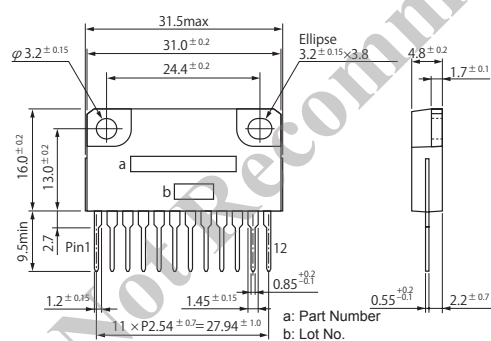
• SIP 12 (SMA12Pin)



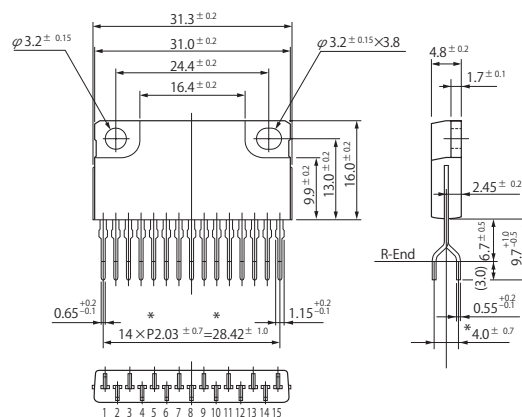
• SIP 15 (SMA15Pin)



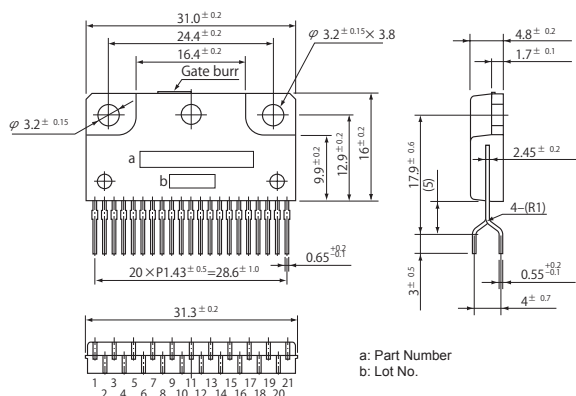
• SIP 12 with Fin (SLA12Pin)



• SIP 15 with Fin (SLA15Pin)



• SIP 21 with Fin (SLA21Pin)



(Unit:mm)