

Absolute maximum ratings

(Ta=25°C)

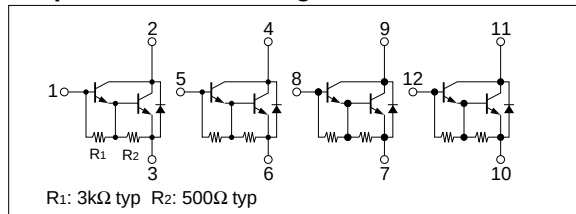
Symbol	Ratings	Unit
V _{CB0}	120	V
V _{CEO}	100	V
V _{EBO}	6	V
I _C	4	A
I _{CP}	6 (PW≤1ms, Du≤50%)	A
I _B	0.5	A
P _T	5 (Ta=25°C)	W
	25 (Tc=25°C)	
V _{ISO}	1000 (Between fin and lead pin, AC)	V _{rms}
T _j	150	°C
T _{stg}	-40 to +150	°C
θ _{J-C}	5	°C/W

Electrical characteristics

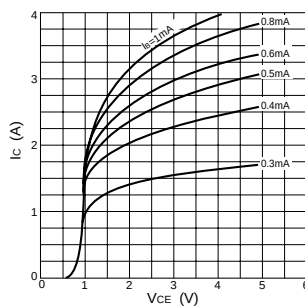
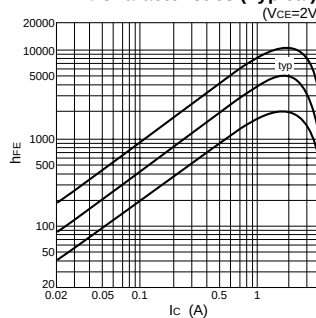
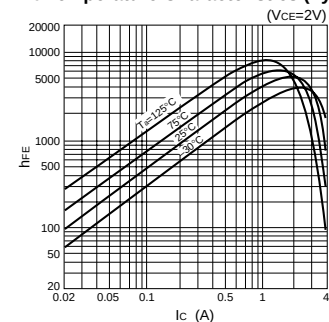
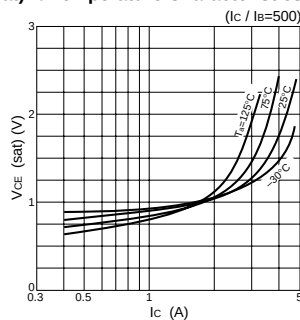
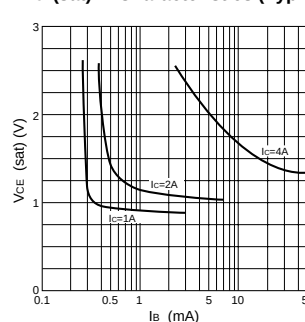
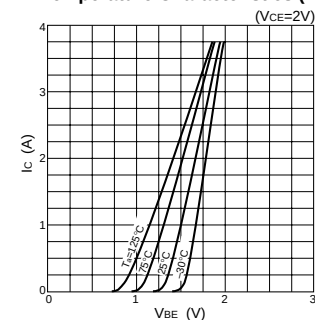
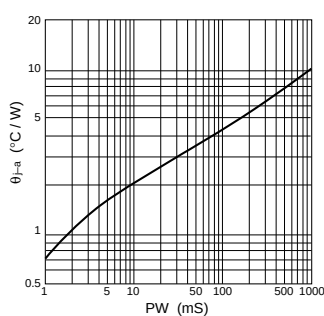
(Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CB0}			10	μA	V _{CB} =120V
I _{EBO}			10	mA	V _{EB} =6V
V _{CEO}	100			V	I _C =10mA
h _{FE}	2000				V _{CE} =4V, I _C =2A
V _{CE(sat)}			1.5	V	I _C =2A, I _B =10mA

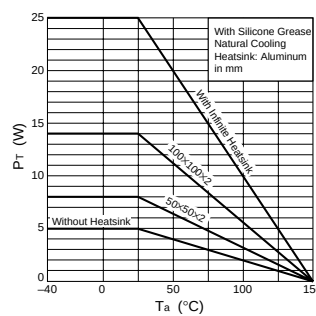
Equivalent circuit diagram



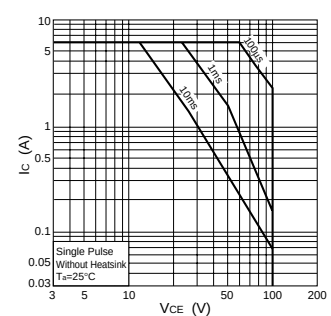
Characteristic curves

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

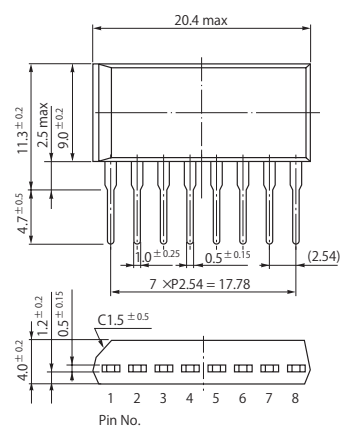
Pr-Ta Characteristics



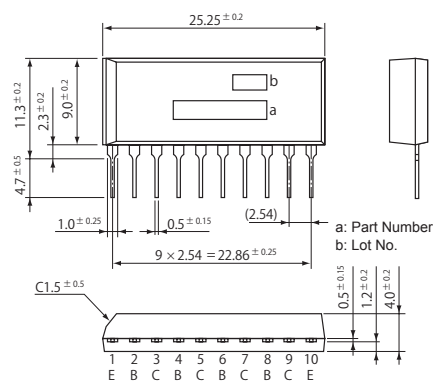
Safe Operating Area (SOA)



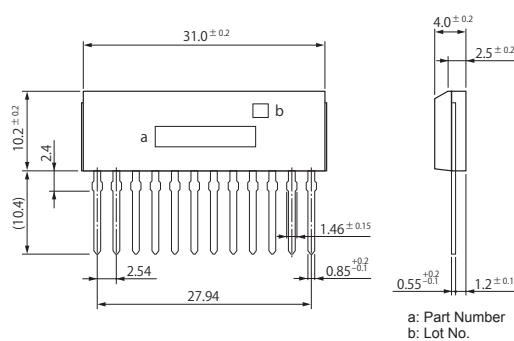
• SIP 8 (STA8Pin)



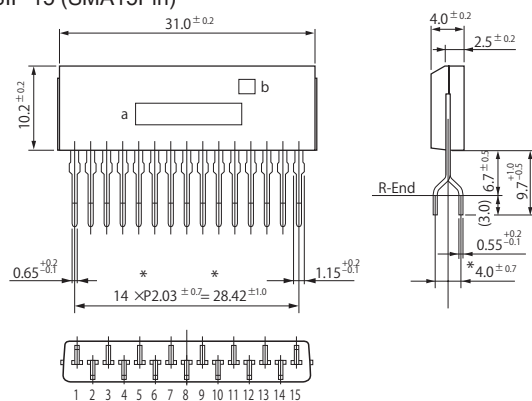
• SIP 10 (STA10Pin)



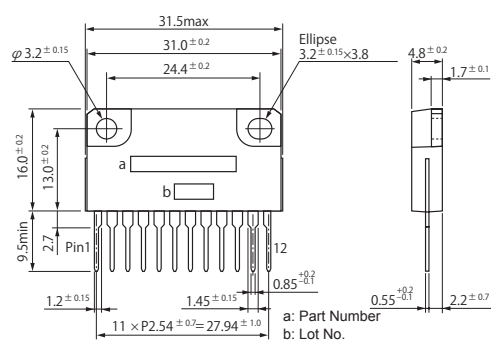
• SIP 12 (SMA12Pin)



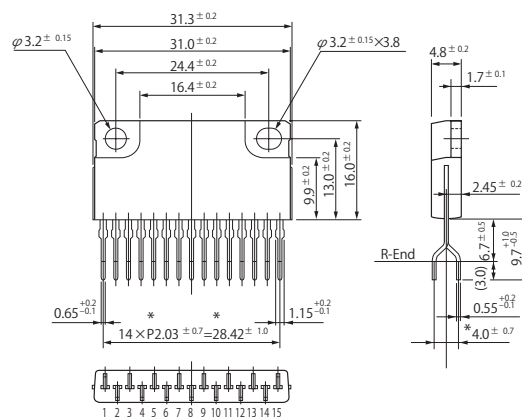
• SIP 15 (SMA15Pin)



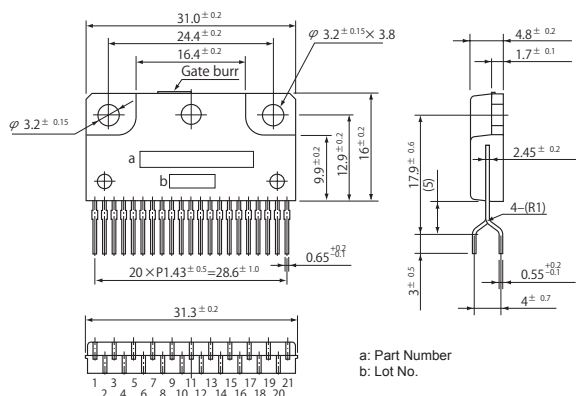
• SIP 12 with Fin (SLA12Pin)



• SIP 15 with Fin (SLA15Pin)



• SIP 21 with Fin (SLA21Pin)



(Unit:mm)