(Ta=25°C)

(Ta=25°C)

STA401A

With built-in avalanche diode

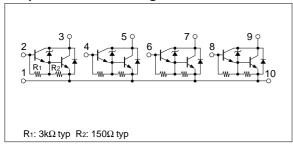
Absolute maximum ratings

		(: a =0 0)
Symbol	Ratings	Unit
Vсво	60±10	V
VCEO	60±10	V
Vево	6	V
lc	4	А
Іср	8 (PW≤10ms, Du≤50%)	А
Рт	4 (Ta=25°C)	10/
	20 (Tc=25°C)	W
Tj	150	°C
Tstg	-40 to +150	°C

Electrical characteristics

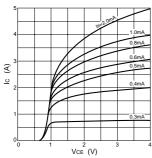
Symbol	Specification			l lm!t	Conditions
	min	typ	max	Unit	Conditions
Ісво			100	μΑ	Vcb=50V
ІЕВО			10	mA	Veb=6V
VCEO	50	60	70	V	Ic=10mA
hfe	1000				Vce=4V, Ic=3A
Vce(sat)			2.0	V	Ic=3A, Iв=10mA
ton		1.0		μs	Vcc≒30V,
tstg		4.0		μs	Ic=3A,
tf		1.5		μs	Iв1=-Iв2=10mA

■Equivalent circuit diagram

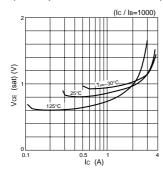


Characteristic curves

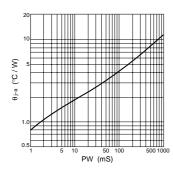
Ic-Vce Characteristics (Typical)



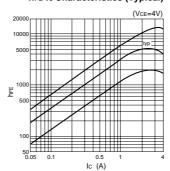
VcE(sat)-lc Temperature Characteristics (Typical)



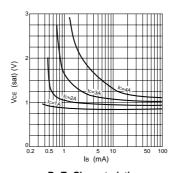
 θ j-a-PW Characteristics



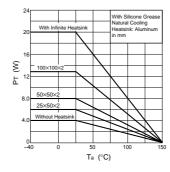
hre-Ic Characteristics (Typical)



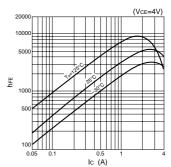
VCE(sat)-IB Characteristics (Typical)



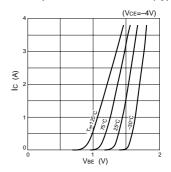
P_T-T_a Characteristics



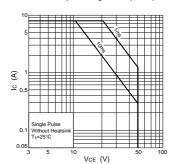
hfe-Ic Temperature Characteristics (Typical)



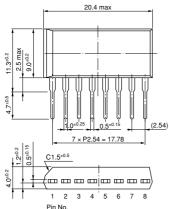
Ic-VBE Temperature Characteristics (Typical)



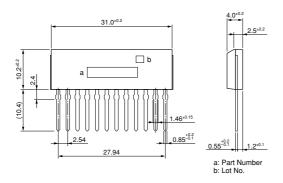
Safe Operating Area (SOA)



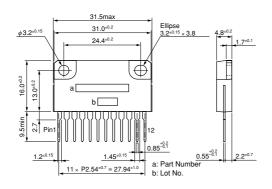




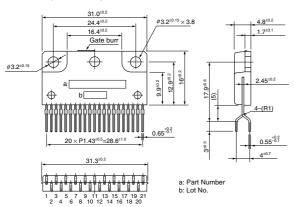
• SIP 12 (SMA12Pin)



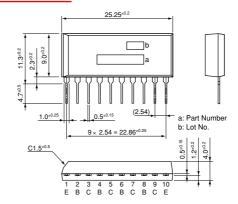
• SIP 12 with Fin (SLA12Pin)



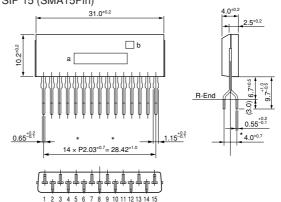
• SIP 15 with Fin (SLA15Pin)



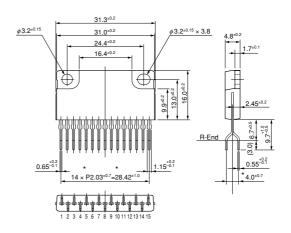
• SIP 10 (STA10Pin)



• SIP 15 (SMA15Pin)



• SIP 15 with Fin (SLA15Pin)



(Unit:mm)