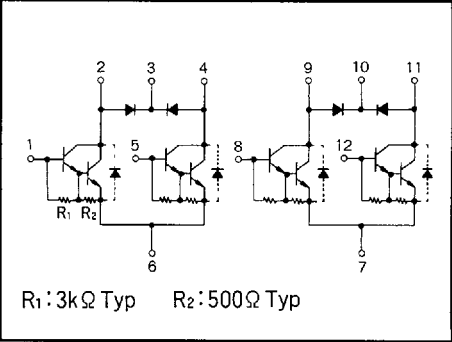


Maximum Ratings

(Ta=25°C)

Item	Symbol	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}	120	V
Collector-to-Emitter Voltage	V _{CE0}	100	V
Emitter-to-Base Voltage	V _{EB0}	6	V
Collector Current	I _c	3	A
Collector Current	I _{CP}	5 (Pw≤1ms, Du≤50%)	A
Base Current	I _B	0.2	A
Diode Forward Current	I _F	3 (Pw≤0.5ms, Du≤25%)	A
Diode Forward Current	I _{FSM}	5 (Pw≤10ms, Single)	A
Diode Reverse Voltage	V _R	120V	
Total Power Dissipation	P _T	4 (Ta=25°C)	W
		20 (Tc=25°C)	
Storage Temperature	T _{stg}	-40~+150	°C

Equivalent Circuit Diagram



Electrical Characteristics

(Ta=25°C)

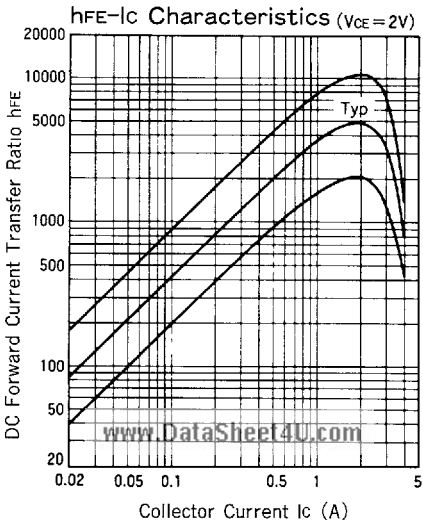
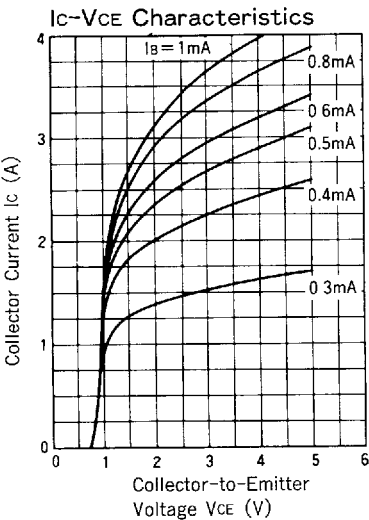
Item	Symbol	Conditions	Specification			Unit
			min	typ	max	
Collector Cut-off Current	I _{CBO}	V _{CB} =120V			10	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =6V			10	mA
Collector-to-Emitter Voltage	V _{CE0}	I _{CE} =25mA	100			V
DC Forward Current Transfer Ratio	h _{FE}	V _{CE} =4V, I _C =1.5A	2000	6000	15000	
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1.5A, I _B =3mA		1.1	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}			1.7	2.0	V

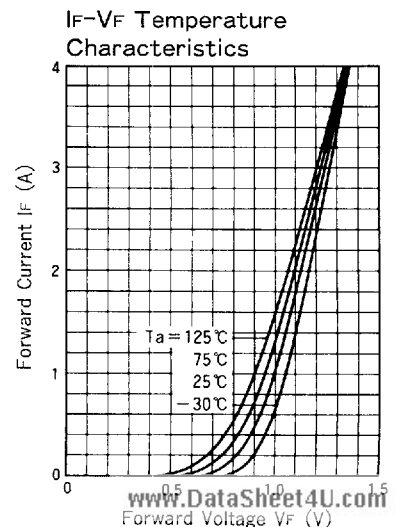
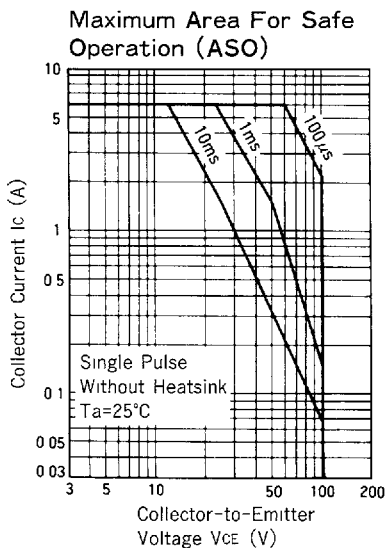
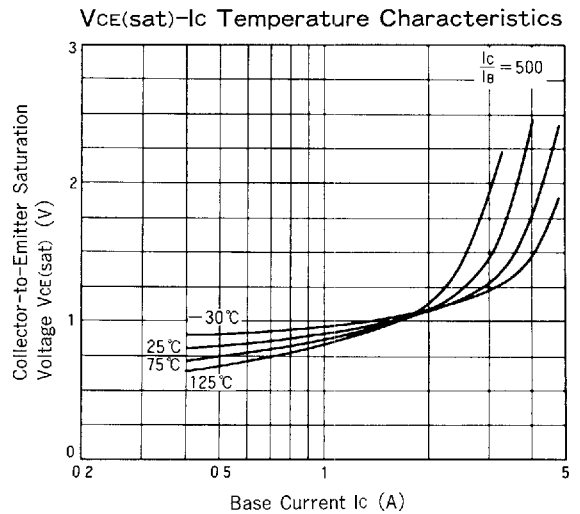
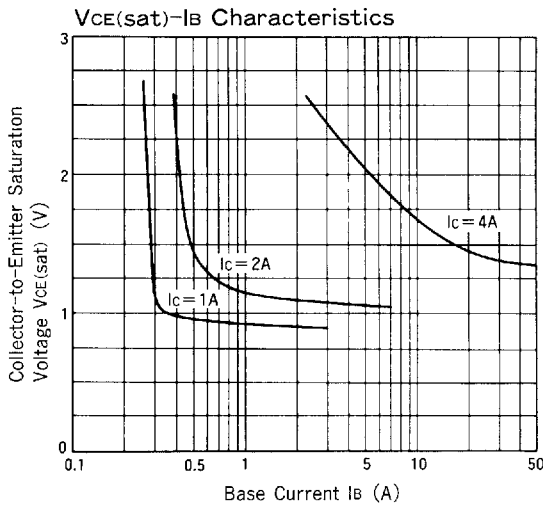
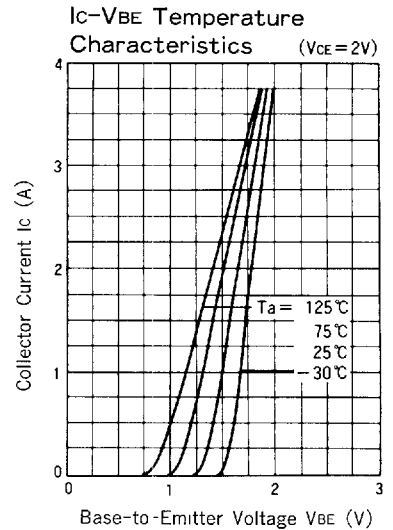
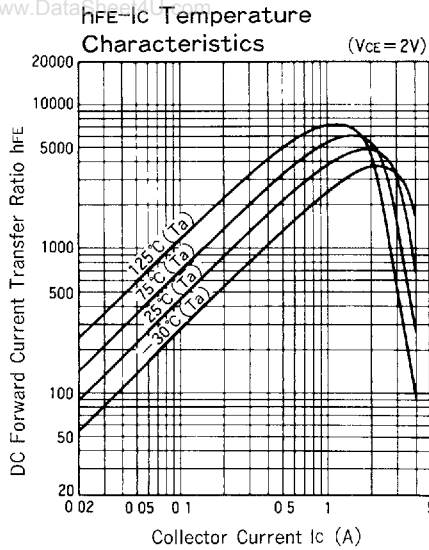
Diode For Fly-Back Voltage Absorption

(Ta=25°C)

Reverse Voltage	V _R	I _R =10μA	100			V
Forward Voltage	V _F	I _F =1A			1.6	V
Reverse Current	I _R	V _R =120V			10	μA
Reverse Recovery Time	t _{rr}	I _F =±100mA		100		ns

Characteristic Curves

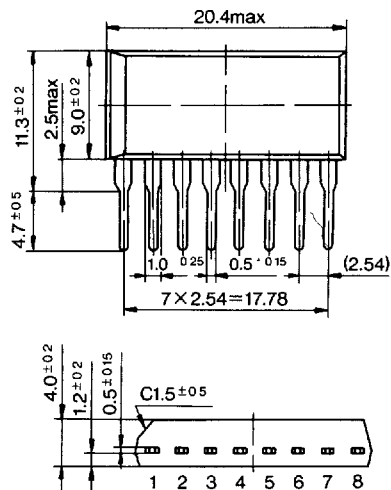




Outline Drawings (Unit:in mm)

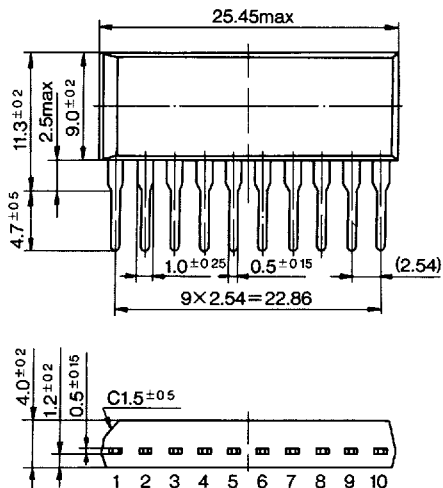
STA Family

STA300 Series



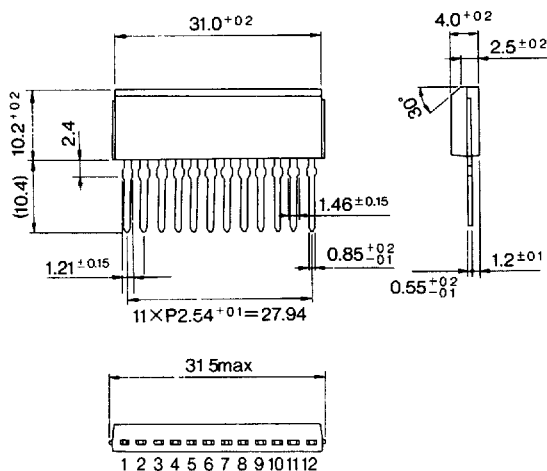
Weight Approx. 2.0g

STA400 Series



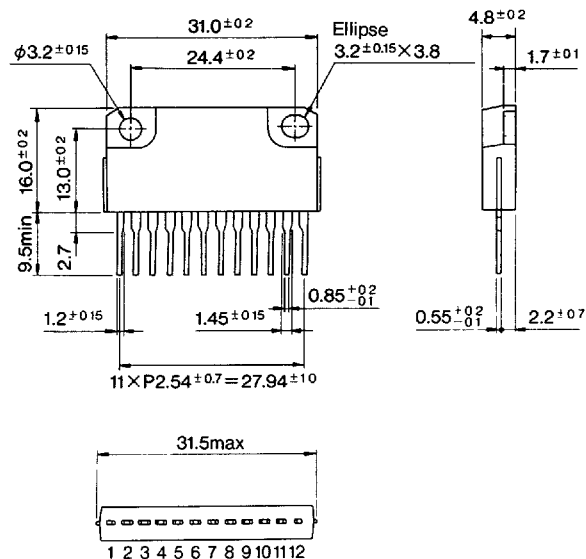
Weight Approx. 2.6g

SMA Family



Weight Approx. 4.0g

SLA Family



www.DataSheet4U.com
Weight Approx. 6.0g