

SLA6050

Silicon NPN Triple Diffused Planar Darlington Silicon PNP Epitaxial Planar Darlington

Maximum Ratings

(Ta = 25°C)

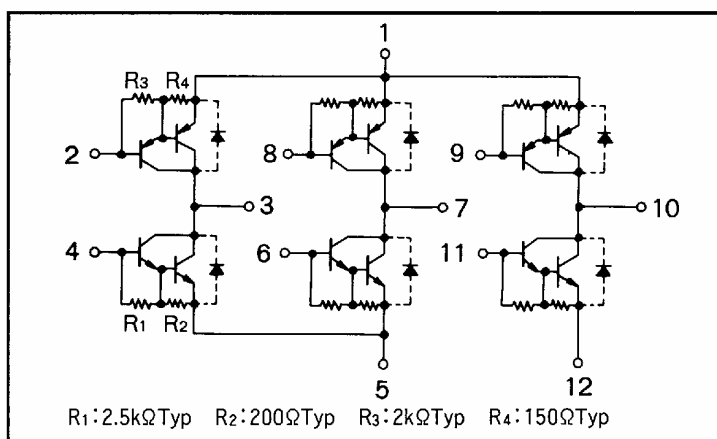
Item	Symbol	NPN	PNP	Unit
Collector-to-Base Voltage	V _{CB0}	100	−60	V
Collector-to-Emitter Voltage	V _{CE0}	100	−60	V
Emitter-to-Base Voltage	V _{EB0}	6	−6	V
Collector Current	I _C	5	−4	A
Base Current	I _B	0.5	−0.5	A
Total Power Dissipation	P _T	5 (T _a = 25°C)		W
		25 (T _c = 25°C)		
Storage Temperature	T _{stg}	−40~+150		°C

Electrical Characteristics

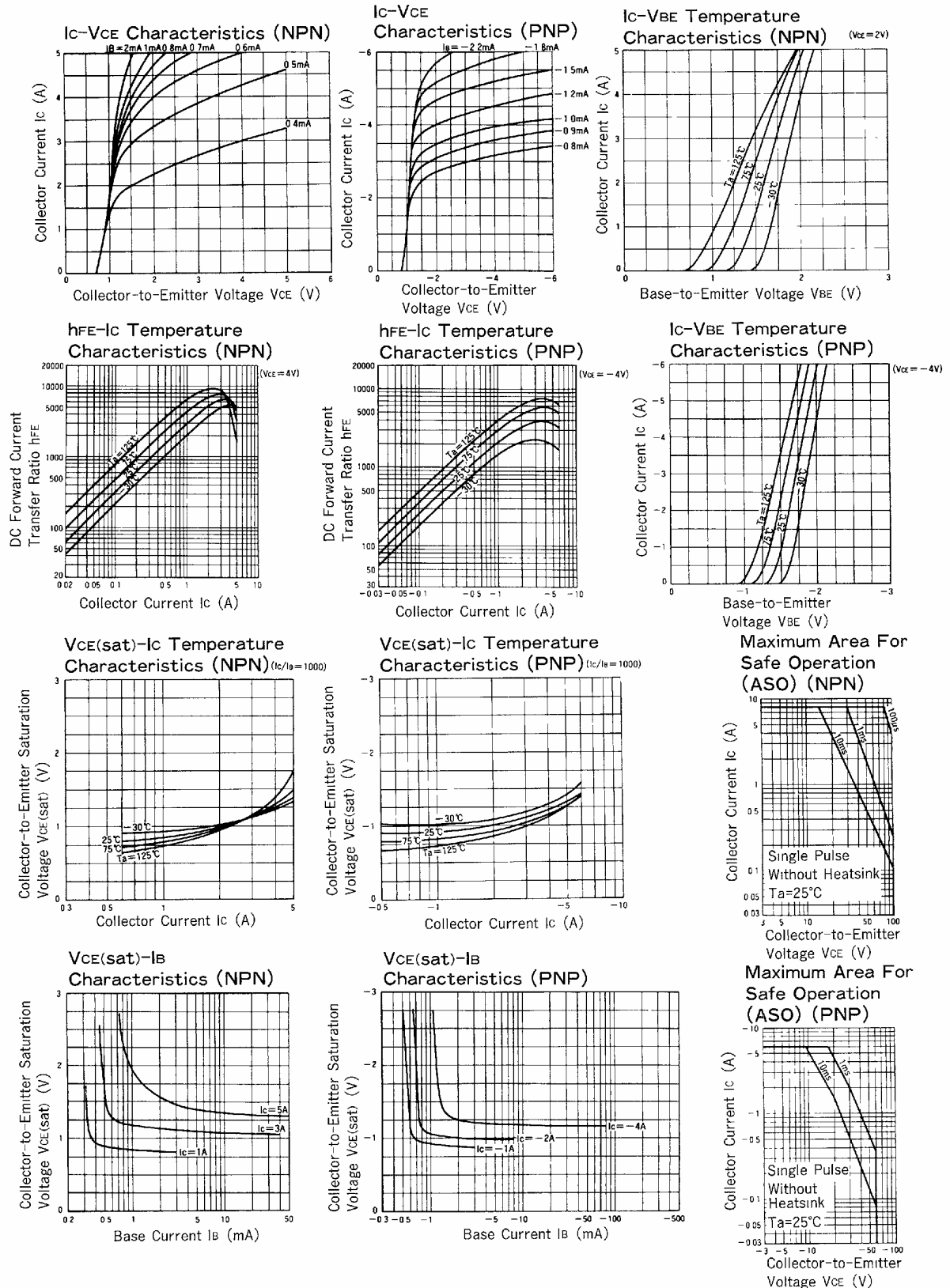
(Ta = 25°C)

Item	Symbol	NPN	PNP
Collector Cut-off Current	I _{CBO}	10 μ Amax (V _{CB} = 100V)	-10 μ Amax (V _{CB} = -60V)
Emitter Cut-off Current	I _{EBO}	10mAmax (V _{EB} = 6V)	-10mAmax (V _{EB} = -6V)
Collector-to-Emitter Voltage	V _{CE0}	100Vmin (I _C = 10mA)	-60Vmin (I _C = -10mA)
DC Forward Current Transfer Ratio	h _{FE}	2000min (V _{CE} = 4V, I _C = 3A)	2000min (V _{CE} = -4V, I _C = -3A)
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	1.5Vmax (I _C = 3A, I _B = 6mA)	-1.5Vmax (I _C = -3A, I _B = -6mA)

Equivalent Circuit Diagram



Characteristic Curves

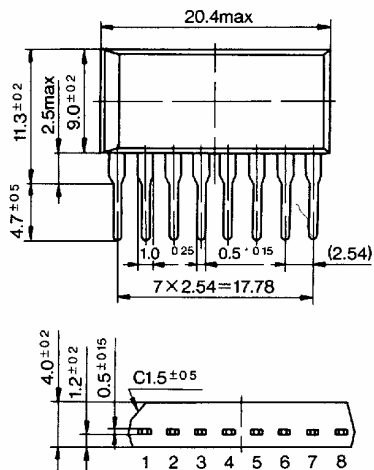


Notes on using products

Outline Drawings (Unit:in mm)

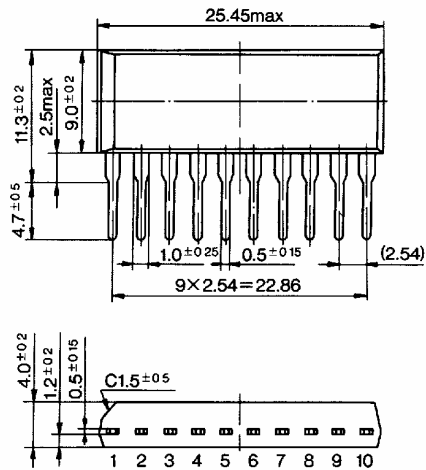
STA Family

STA300 Series



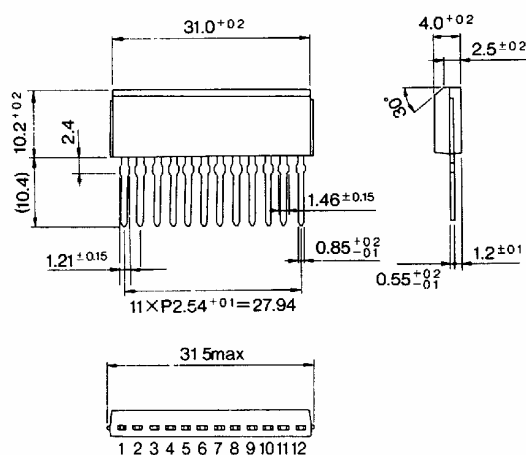
Weight Approx. 2.0g

STA400 Series



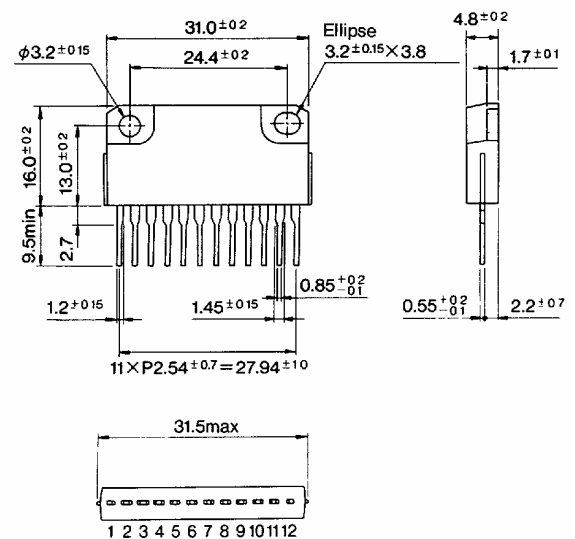
Weight Approx. 2.6g

SMA Family



Weight Approx. 4.0g

SLA Family



Weight Approx. 6.0g