

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: SLA4071

Manufacturer: Sanken Electric USA Inc.

Package: 12-SIP Exposed Tab

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/sanken-electric-usa-inc/sla4071.html>

Request a Quote:

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Contact Information

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WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Absolute maximum ratings

($T_a=25^{\circ}\text{C}$)

Symbol	Ratings	Unit
V _{CBO}	−100	V
V _{CEO}	−100	V
V _{EBO}	−6	V
I _C	−5	A
I _{CP}	−8 (P _W ≤1ms, D _u ≤50%)	A
I _B	−0.5	A
I _F	−5 (P _W ≤0.5ms, D _u ≤25%)	A
I _{FSM}	−8 (P _W ≤10ms, single)	A
V _R	120	V
P _T	5 (T _a =25°C)	W
	25 (T _c =25°)	
V _{ISO}	1000 (Between fin and lead pin, AC)	V _{rms}
T _j	150	°C
T _{stg}	−40 to +150	°C
θ _{i-c}	5	°C/W

Electrical characteristics

($T_a=25^{\circ}\text{C}$)

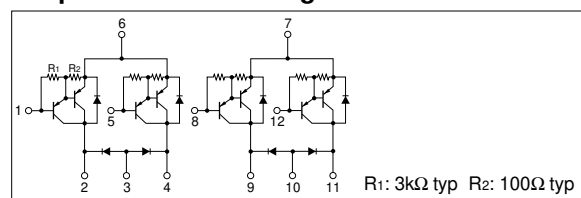
Symbol	Specification			Unit	Conditions
	min	typ	max		
ICBO			-10	μA	$V_{CB}=-100\text{V}$
IEBO			-10	mA	$V_{EB}=-6\text{V}$
V_{CEO}	-100			V	$I_C=-10\text{mA}$
h_{FE}	2000	5000	15000		$V_{CE}=-2\text{V}, I_C=-3\text{A}$
$V_{CE(sat)}$		-1.0	-1.5	V	$I_C=-3\text{A}, I_B=-6\text{mA}$
$V_{BE(sat)}$		-1.6	-2.0	V	

●Diode for flyback voltage absorption

($T_a=25^{\circ}\text{C}$)

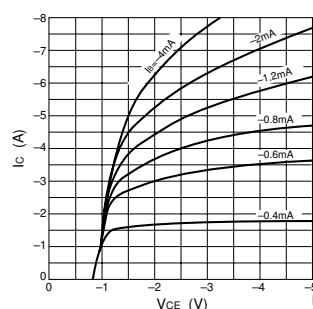
Symbol	Specification			Unit	Conditions
	min	typ	max		
V_R	120			V	$I_R=10\mu A$
V_F			1.2	V	$I_F=1A$
I_R			10	μA	$V_R=120V$
t_{rr}		100		ns	$I_F=\pm 100mA$

■Equivalent circuit diagram

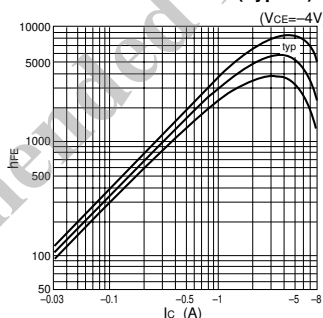


Characteristic curves

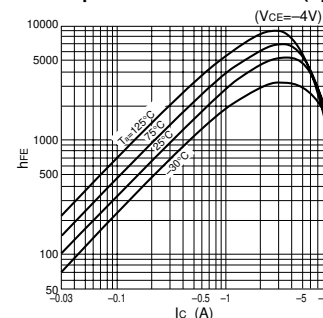
IC-V_{CE} Characteristics (Typical)



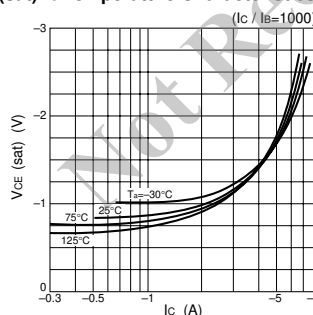
hFE-Ic Characteristics (Typical)



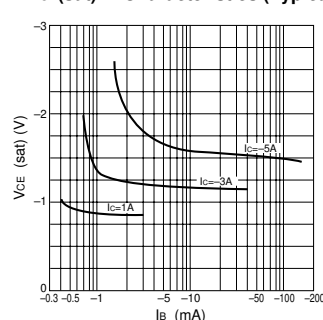
hFE-Ic Temperature Characteristics (Typical)



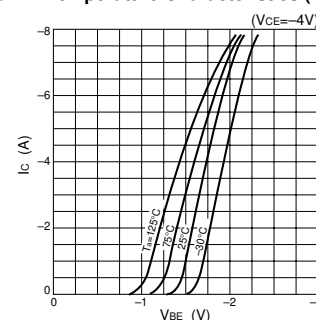
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



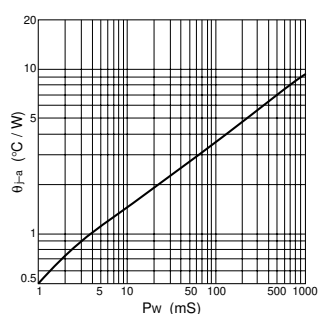
V_{CE(sat)}-I_B Characteristics (Typical)



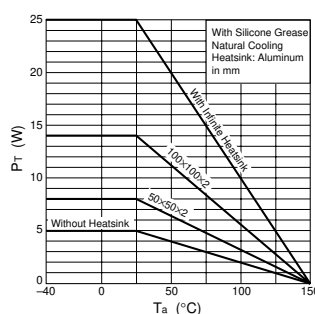
Ic-VBE Temperature Characteristics (Typical)



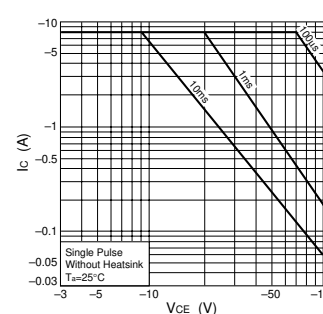
θ_{j-a} -PW Characteristics



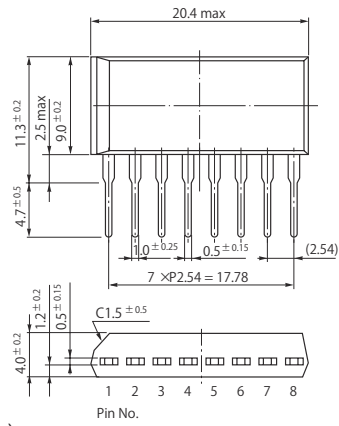
P_T-T_a Characteristics



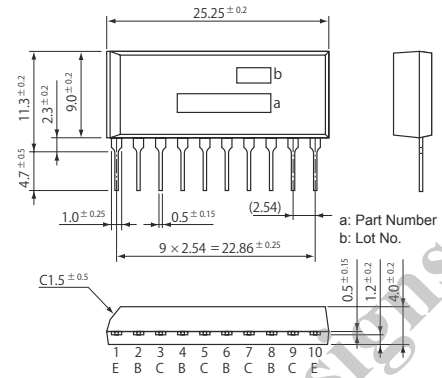
Safe Operating Area (SOA)



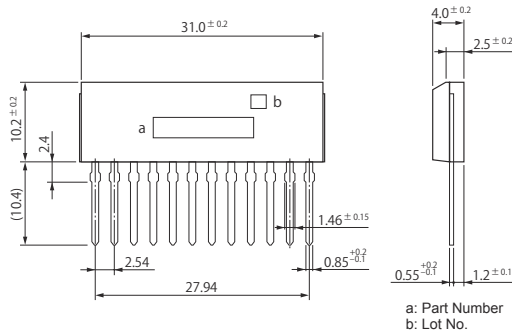
• SIP 8 (STA8Pin)



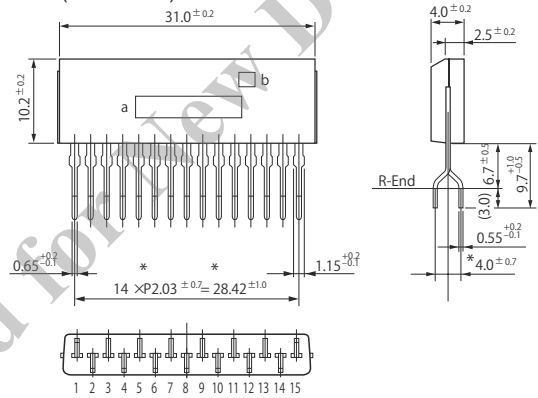
• SIP 10 (STA10Pin)



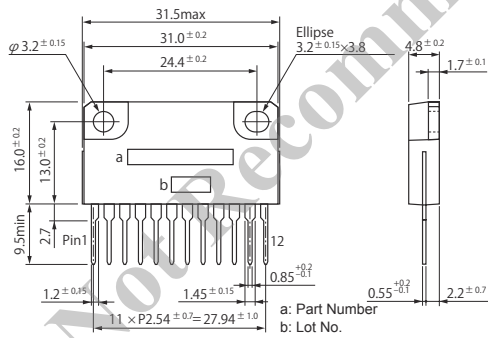
• SIP 12 (SMA12Pin)



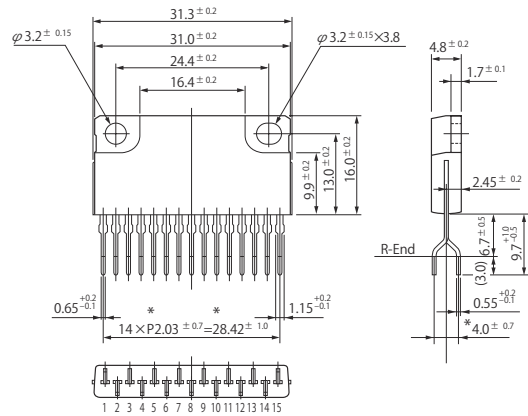
• SIP 15 (SMA15Pin)



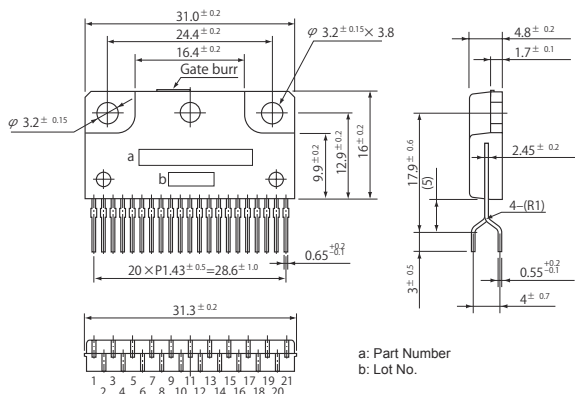
• SIP 12 with Fin (SLA12Pin)



• SIP 15 with Fin (SLA15Pin)



• SIP 21 with Fin (SLA21Pin)



(Unit:mm)