

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SA1494
Manufacturer: Sanken Electric USA Inc.
Package: 3-ESIP
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/sanken-electric-usa-inc/2sa1494.html>

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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.

2SA1494

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3858)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CBO}	−200	V
V _{CEO}	−200	V
V _{EBO}	−6	V
I _C	−17	A
I _B	−5	A
P _C	200(T _C =25°C)	W
T _J	150	°C
T _{stg}	−55 to +150	°C

■Electrical Characteristics (Ta=25°C)

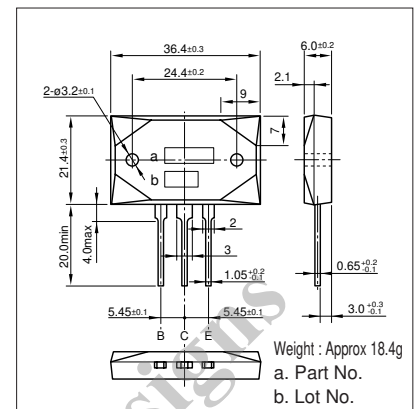
Symbol	Conditions	Ratings	Unit
ICBO	$V_{CB} = -200V$	-100max	μA
IEBO	$V_{EB} = -6V$	-100max	μA
$V_{(BR)CEO}$	$I_C = -50mA$	-200min	V
h_{FE}	$V_{CE} = -4V, I_C = -8A$	50min*	
$V_{CE(sat)}$	$I_C = -10A, I_B = -1A$	-2.5max	V
f_T	$V_{CE} = -12V, I_E = 1A$	20typ	MHz
COB	$V_{CB} = -10V, f = 1MHz$	500typ	pF

*hFE Rank Y(50to 100), P(70to 140), G(90to 180)

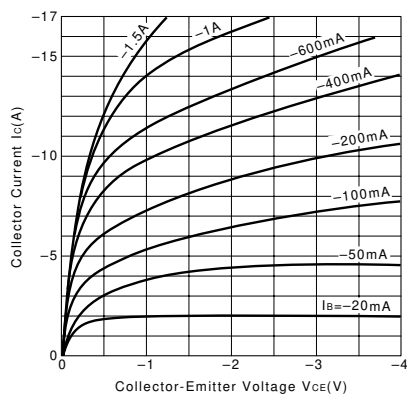
■ Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
-40	4	-10	-10	5	-1	1	0.6typ	0.9typ	0.2typ

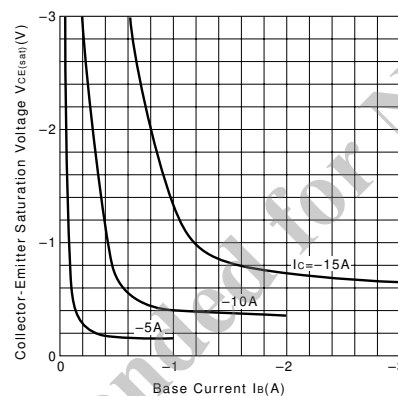
External Dimensions MT-200



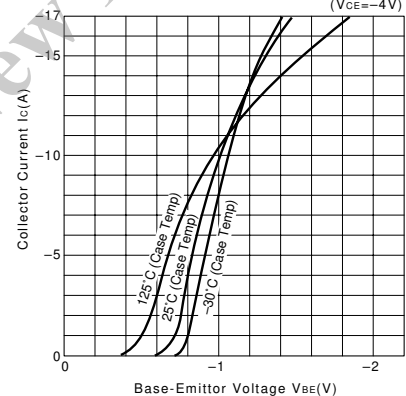
I_C–V_{CE} Characteristics (Typical)



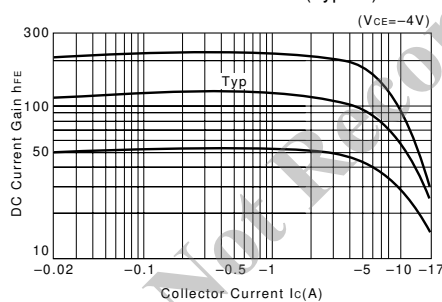
V_{CE(sat)}-I_B Characteristics (Typical)



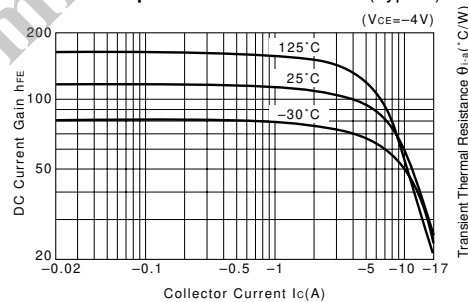
I_C-V_{BE} Temperature Characteristics (Typical)



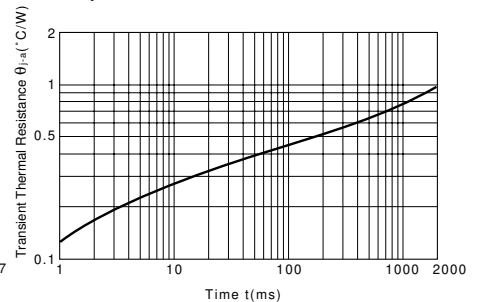
$h_{FE}-I_C$ Characteristics (Typical)



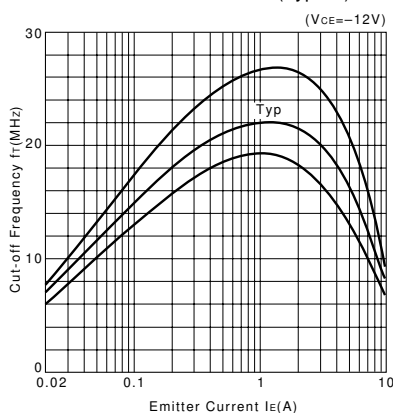
$h_{FE}-I_C$ Temperature Characteristics (Typical)



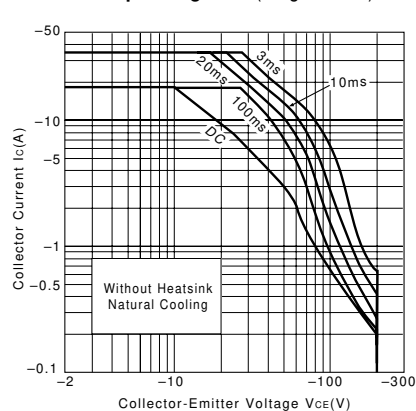
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

