

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SC3858

Manufacturer: Sanken Electric USA Inc.

Package: 3-ESIP

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/sanken-electric-usa-inc/2sc3858.html>

Request a Quote:

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Contact Information

Email: info@antrexco.com

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.

2SC3858

Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SA1494)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
VCBO	200	V
VCEO	200	V
VEBO	6	V
IC	17	A
IB	5	A
PC	200(Tc=25°C)	W
TJ	150	°C
Tstg	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

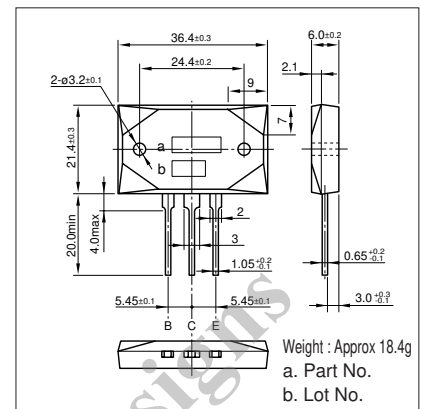
Symbol	Conditions	Ratings	Unit
ICBO	VCB=200V	100max	μA
IEBO	VEB=6V	100max	μA
V(BR)CEO	IC=50mA	200min	V
hFE	VCE=4V, IC=8A	50min*	
VCE(sat)	IC=10A, IB=1A	2.5max	V
fr	VCE=12V, IE=-1A	20typ	MHz
COB	VCB=10V, f=1MHz	300typ	pF

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

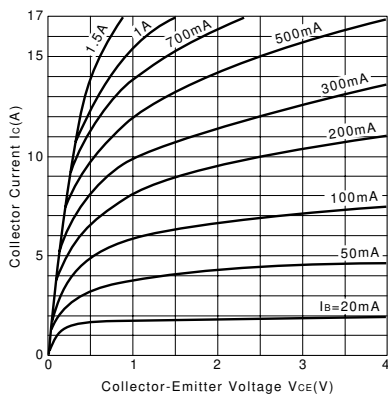
Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	IC (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (μs)	tstg (μs)	tf (μs)
40	4	10	10	-5	1	-1	0.5typ	1.8typ	0.6typ

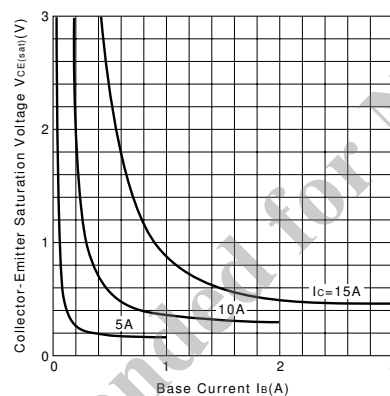
External Dimensions MT-200



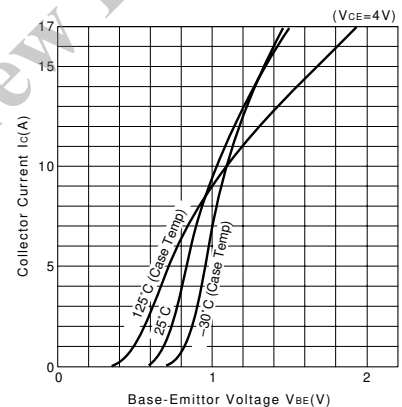
IC-VCE Characteristics (Typical)



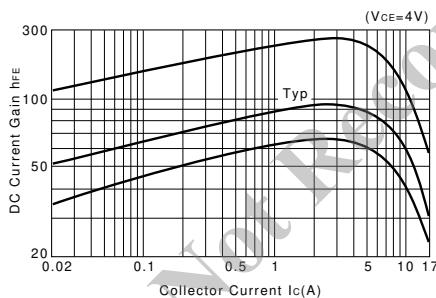
VCE(sat)-IB Characteristics (Typical)



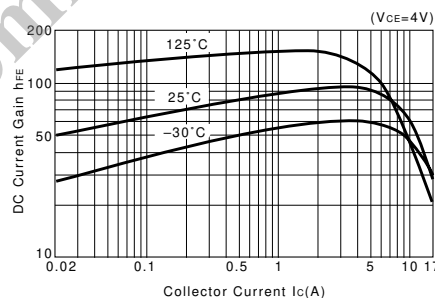
IC-VBE Temperature Characteristics (Typical)



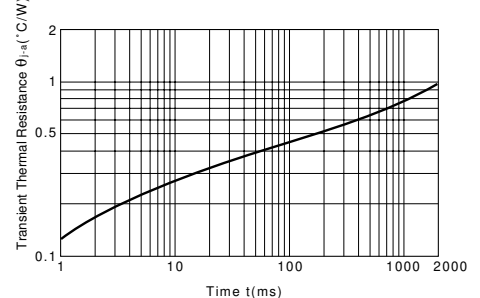
hFE-IC Characteristics (Typical)



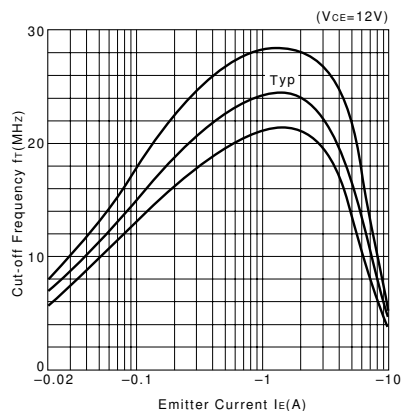
hFE-IC Temperature Characteristics (Typical)



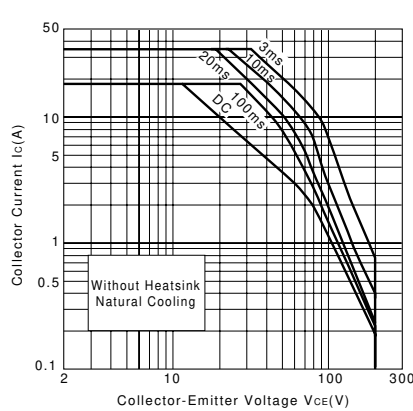
θJA-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



PC-Ta Derating

