

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SA1488A
Manufacturer: Sanken Electric USA Inc.
Package: TO-220-3 Full Pack
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/sanken-electric-usa-inc/2sa1488a.html>

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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.

2SA1488/1488A

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3851/A)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings		Unit
	2SA1488	2SA1488A	
V _{CBO}	−60	−80	V
V _{CEO}	−60	−80	V
V _{EBO}	−6		V
I _C	−4		A
I _B	−1		A
P _C	25(T _C =25°C)		W
T _J	150		°C
T _{stg}	−55 to +150		°C

■Electrical Characteristics

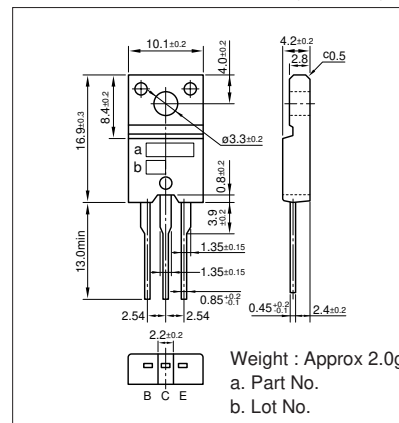
($T_a=25^{\circ}\text{C}$)

Symbol	Conditions	Ratings		Unit
ICBO		–100max	–100max	μA
		–60	–80	V
IEBO	$V_{EB} = -6\text{V}$	–100max		μA
V(BR)CEO	$I_C = -25\text{mA}$	–60min	–80min	V
hFE	$V_{CE} = -4\text{V}, I_C = -1\text{A}$	40min		
$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$	–0.5max		V
fT	$V_{CE} = -12\text{V}, I_E = 0.2\text{A}$	15typ		MHz
COB	$V_{CB} = -10\text{V}, f = 1\text{MHz}$	90typ		pF

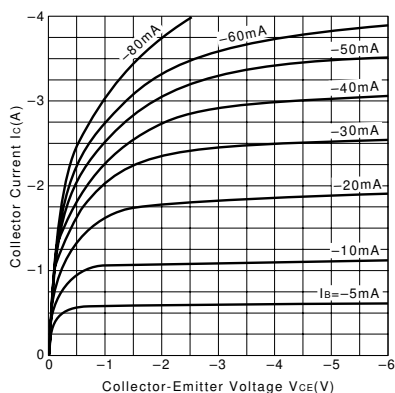
■ Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
-12	6	-2	-10	5	-200	200	0.25typ	0.75typ	0.25typ

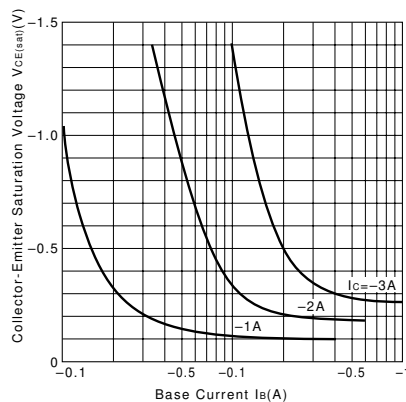
External Dimensions FM20 (TO220F)



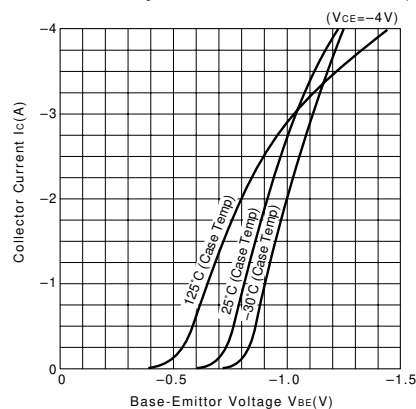
I_C-V_{CE} Characteristics (Typical)



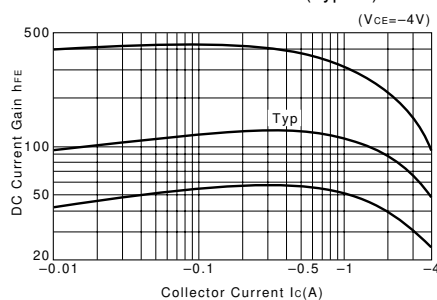
V_{CE(sat)}–I_B Characteristics (Typical)



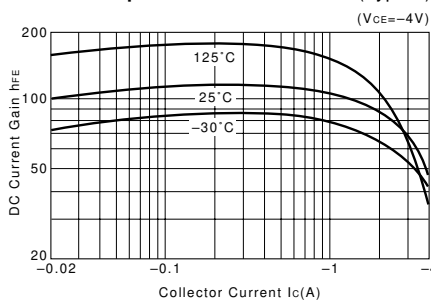
I_C-V_{BE} Temperature Characteristics (Typical)



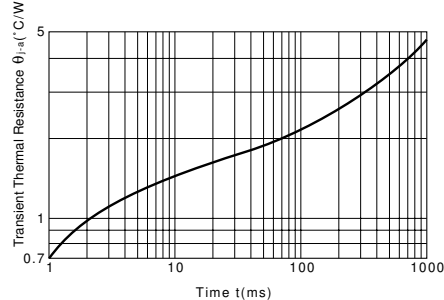
$h_{FE}-I_C$ Characteristics (Typical)



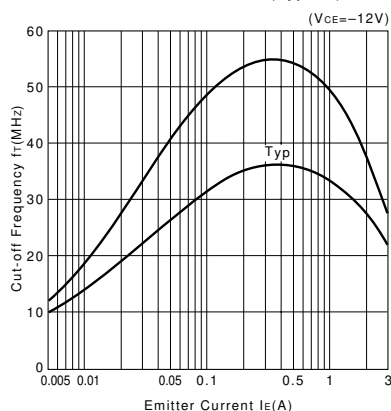
h_{FE}-I_C Temperature Characteristics (Typical)



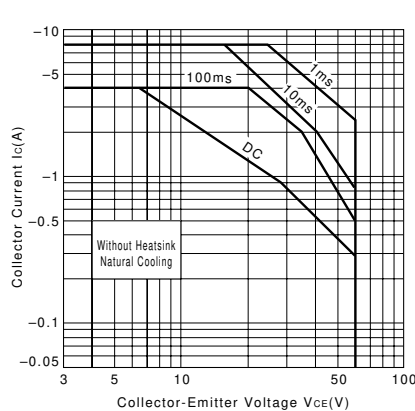
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

