

2SA1489

Silicon PNP Epitaxial Planar

☆ Complement to type 2SC3853

T-33-21

Application Example :

Audio and General Purpose

● Outline Drawing 2.....MT-100(TO3P)

Absolute Maximum Ratings

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

Symbol	2SA1489	Unit
V_{CB0}	-80	V
V_{CE0}	-80	V
V_{EB0}	-6	V
I_C	-6	A
I_B	-3	A
P_C	60 ($T_c = 25^\circ\text{C}$)	W
T_j	150	$^\circ\text{C}$
T_{stg}	-55~+150	$^\circ\text{C}$

Electrical Characteristics

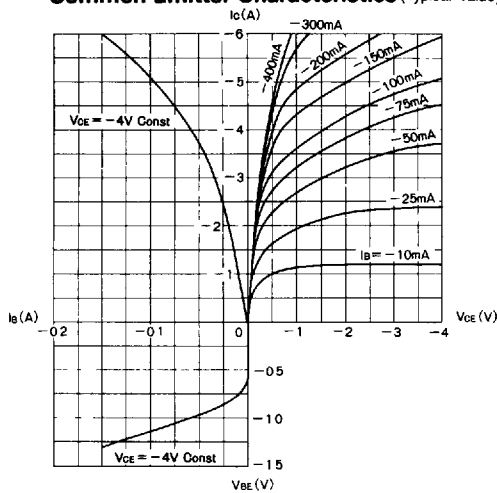
($T_a = 25^\circ\text{C}$)

Symbol	Conditions	2SA1489	Unit
I_{CBO}	$V_{CB} = -80\text{V}$	-100max	μA
I_{EBO}	$V_{EB} = -6\text{V}$	-100max	μA
$V_{(BR)CEO}$	$I_C = -50\text{mA}$	-80min	V
h_{FE}	$V_{CE} = -4\text{V}$, $I_C = -2\text{A}$	50min	
$V_{CE(sat)}$	$I_C = -2\text{A}$, $I_B = -0.2\text{A}$	-1.5max	V
f_T	$V_{CE} = -12\text{V}$, $I_E = 0.5\text{A}$	20typ	MHz

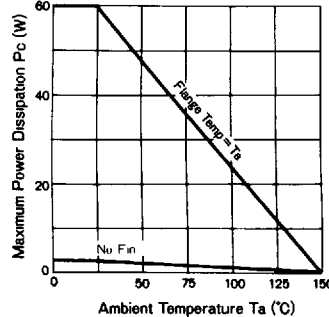
Typical Switching Characteristics (Common Emitter)

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_r (μs)
-30	10	-3	-10	5	-0.3	0.3	0.25typ	0.5typ	0.1typ

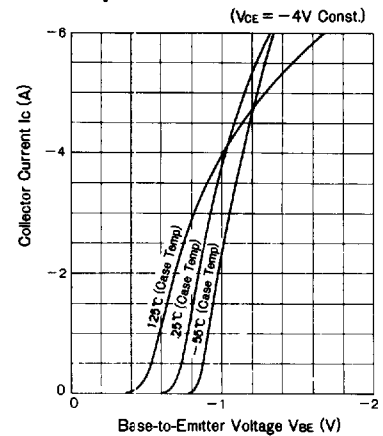
Common Emitter Characteristics (Typical Value)



Power Derating

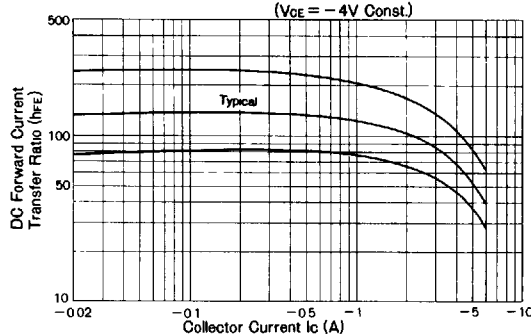


Temperature Characteristics



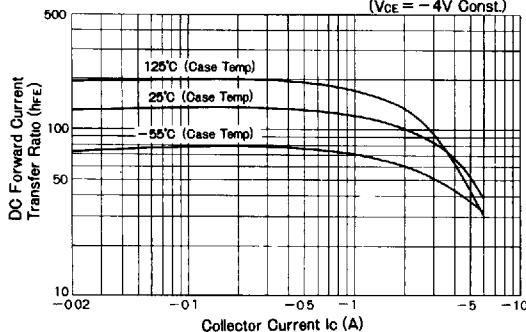
DC Current Gain Characteristics

($V_{CE} = -4\text{V}$ Const.)

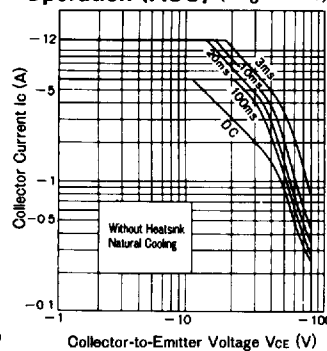


DC Current Gain Temperature Characteristics

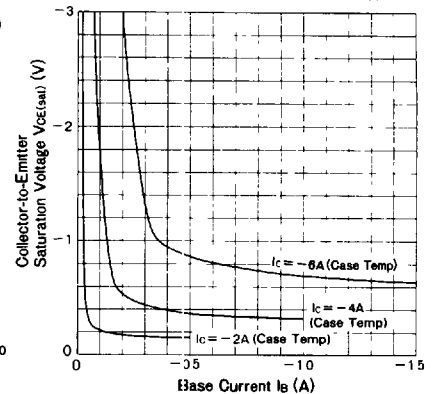
($V_{CE} = -4\text{V}$ Const.)



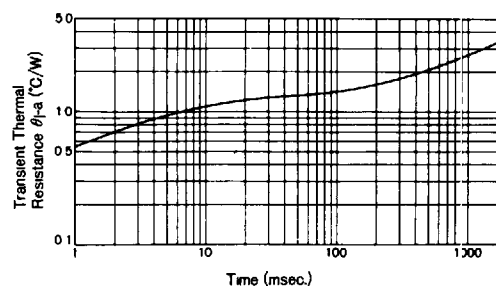
Maximum Areas For Safe Operation (ASO) (Single Pulse)



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



Transient Thermal Resistance Characteristics



Outline Drawings/Accessories

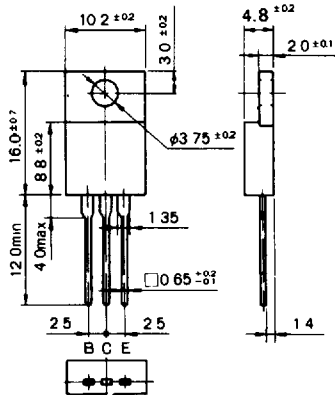
T-91-20

Outline Drawing

- Nonflammability: UL94V-0 or equivalent
- Unit: in mm

Outline Drawing 1

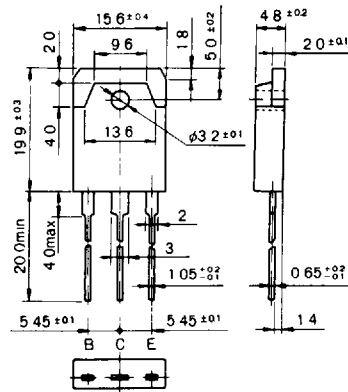
MT-25(TO220)



Weight: Approx. 2.6 g

Outline Drawing 2

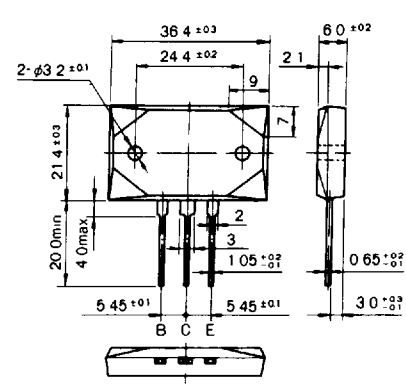
MT-100(TO3P)



Weight: Approx. 6.0 g

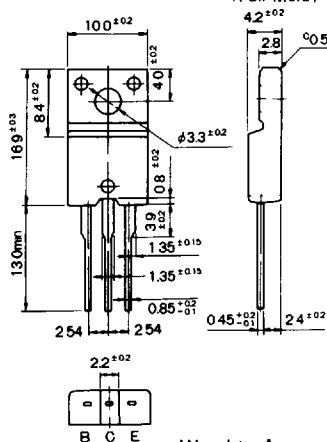
Outline Drawing 3

MT-200



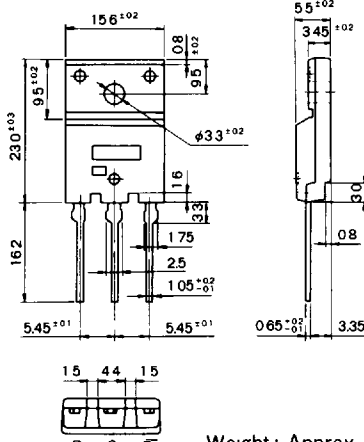
Weight: Approx. 18.4 g

Outline Drawing 4

FM20
(Full Mold)

Weight: Approx. 2.0 g

Outline Drawing 5

FM100
(Full Mold)

Weight: Approx. 6.5 g

Accessories

☆ Sanken Transistors do not include accessories. Accessories may be attached at a cost if requested.

☆ Sanken transistor case is a standard size, and can replace any generally sold product.

- Heatsink: Mica, with a thickness of 0.06 mm, +0.045 -0.005 allowance

- Insulation Bush for MT-25 (TO220)

Type Name: Molded (10) Mica Type Name: Molded (14) Mica Type Name: Molded (9) Mica

