

2SA1491

Silicon PNP Epitaxial Planar

☆ Complement to type 2SC3855

T-33-23

Absolute Maximum Ratings (Ta=25°C)

Symbol	2SA1491	Unit
V _{CB0}	-140	V
V _{CE0}	-140	V
V _{EB0}	-6	V
I _C	-10	A
I _B	-4	A
P _C	100 (T _C = 25°C)	W
T _J	150	°C
T _{stg}	-55~+150	°C

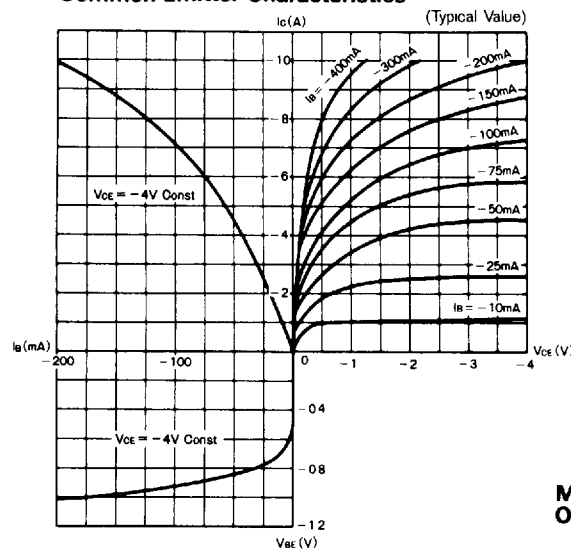
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SA1491	Unit
I _{CB0}	V _{CB} = -140V	-100max	μA
I _{EB0}	V _{EB} = -6V	-100max	μA
V _{BR} (CEO)	I _C = -50mA	-140min	V
h _{FE}	V _{CE} = -4V, I _C = -3A	50min	
V _{CE} (sat)	I _C = -5A, I _B = -0.5A	-2.0max	V
f _T	V _{CE} = -12V, I _E = 0.5A	20typ	MHz

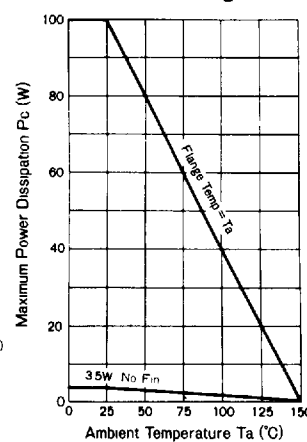
Typical Switching Characteristics (Common Emitter)

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 _f (μs)
-60	12	-5	-10	5	-0.5	0.5	0.3typ	0.9typ	0.2typ

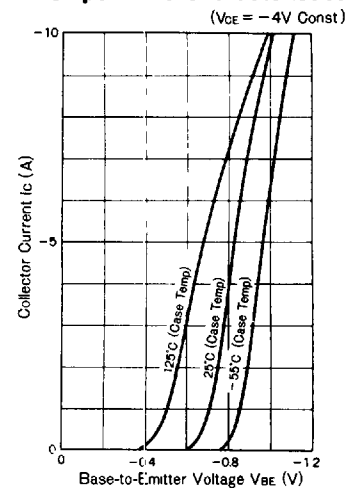
Common Emitter Characteristics



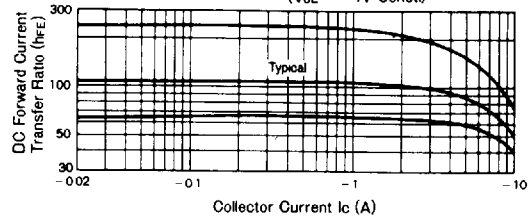
Power Derating



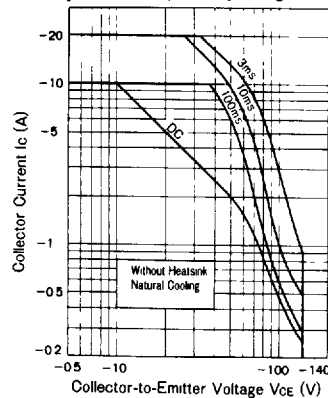
Temperature Characteristics



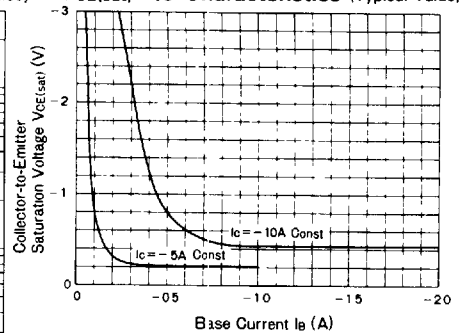
DC Current Gain Characteristics



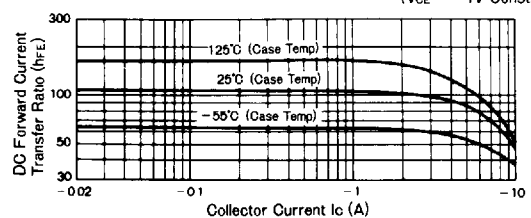
Maximum Areas For Safe Operation (ASO) (Single Pulse)



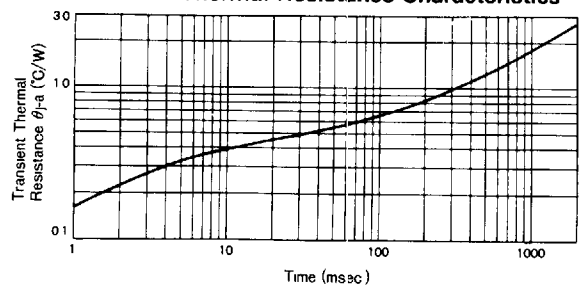
V_{CE}(sat) - I_B Characteristics (Typical Value)



DC Current Gain Temperature Characteristics



Transient Thermal Resistance Characteristics



Outline Drawings/Accessories

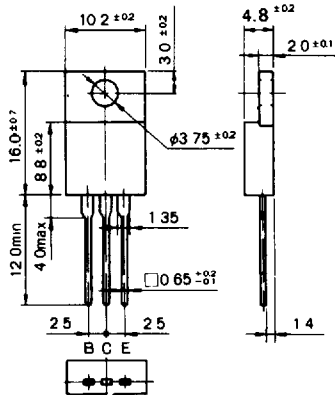
T-91-20

Outline Drawing

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

Outline Drawing 1

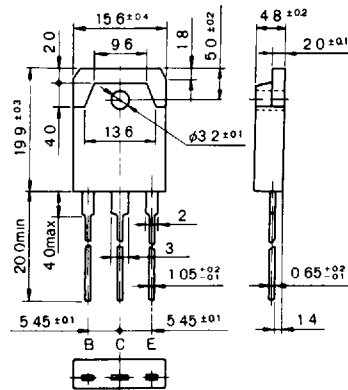
MT-25(TO220)



Weight: Approx. 2.6 g

Outline Drawing 2

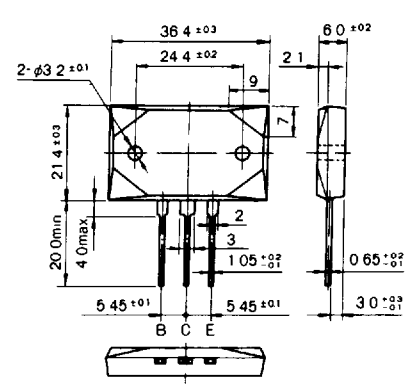
MT-100(TO3P)



Weight: Approx. 6.0 g

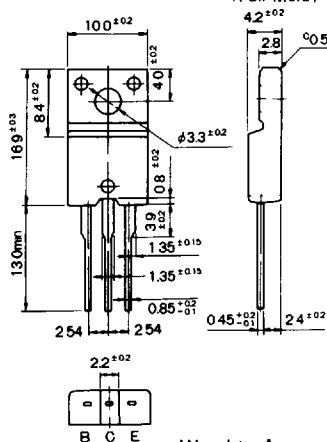
Outline Drawing 3

MT-200



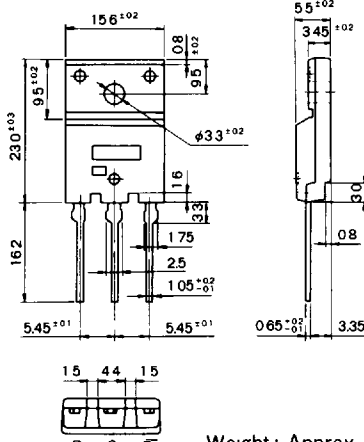
Weight: Approx. 18.4 g

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

