

2SA770

2SA771

Silicon PNP Epitaxial Planar

☆ Complement to types 2SC1985 thru 2SC1986

Application Example :

General and Industrial Purpose

● Outline Drawing 1 MT-25(TO220)

● Test Circuit ①

Electrical Characteristics

Symbol	Conditions	2SA770	2SA771	Unit
I_{CBO}	$V_{CB} =$	-1.0max	-1.0max	mA
I_{EBO}	$V_{EB} = -6V$	-1.0max	-1.0max	mA
$V_{(BR)CEO}$	$I_C = -25mA$	-60min	-80min	V
h_{FE}	$V_{CE} = -4V, I_C = -1A$	40min	40min	
$V_{CE(sat)}$	$I_C = -3A, I_B = -0.3A$	-1.0max	-1.0max	V
f_T	$V_{CE} = -12V, I_E = 0.5A$	10typ	10typ	MHz

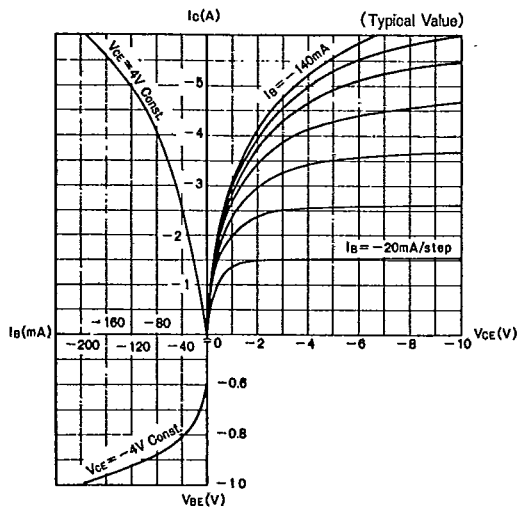
Absolute Maximum Ratings

Symbol	2SA770	2SA771	Unit
V_{CBO}	-60	-80	V
V_{CEO}	-60	-80	V
V_{EBO}	-6	-6	V
I_C	-6	-6	A
I_B	-3	-3	A
P_C	40 ($T_{FL} = 25^\circ C$)	40	W
T_j	150	150	$^\circ C$
T_{stg}	-55~+150	-55~+150	$^\circ C$

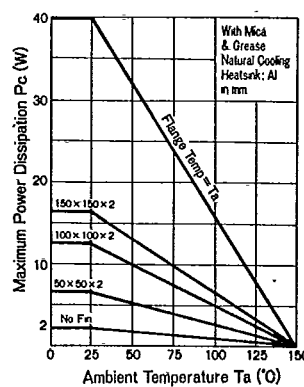
Typical Switching Characteristics (Emitter Common)

V_{CC} (V)	R_L (Ω)	I_C (A)	V_{B2} (V)	I_{B1} (mA)	I_{B2} (mA)	t_r (μs)	t_{stg} (μs)	t_f (μs)
-9	3	-3	5	-400	400	0.9typ	1.0typ	0.1typ

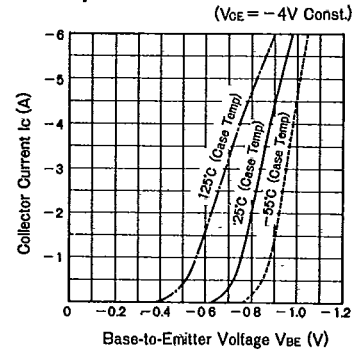
Common Emitter Characteristics



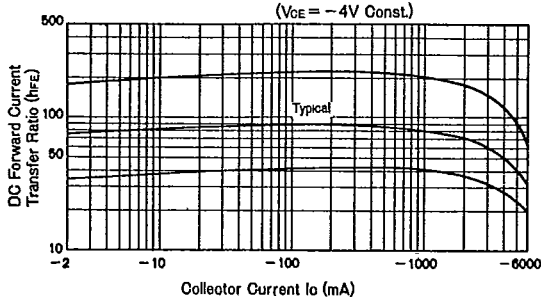
Power Derating



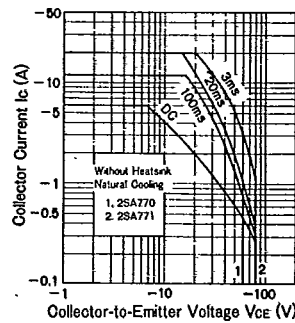
Temperature Characteristics



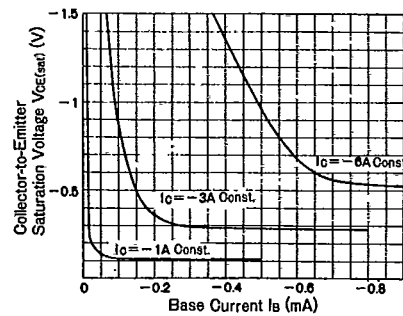
DC Current Gain Characteristics



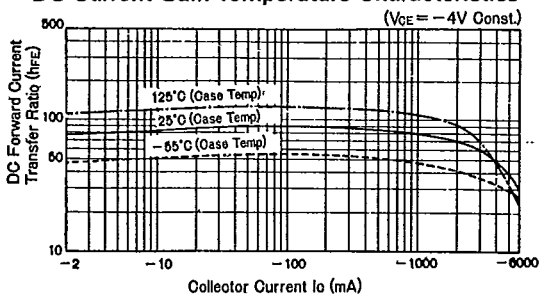
Maximum Areas For Safe Operation (ASO) (Single Pulse)



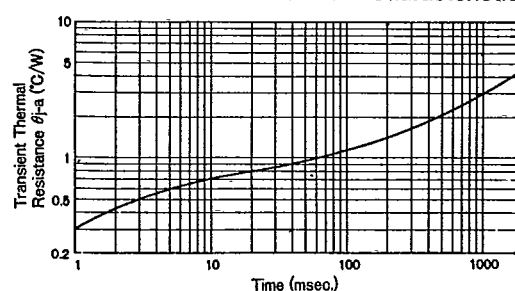
Collector-to-Emitter Saturation Characteristics (Typical Value)



DC Current Gain Temperature Characteristics



Transient Thermal Resistance Characteristics



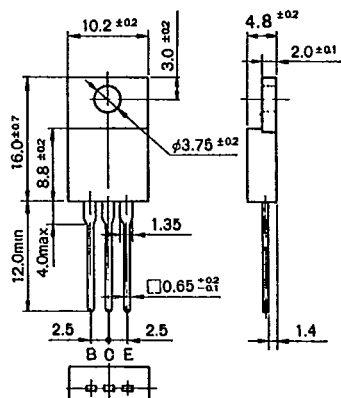
Outline Drawings/Accessories

Outline Drawing

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

Outline Drawings 1

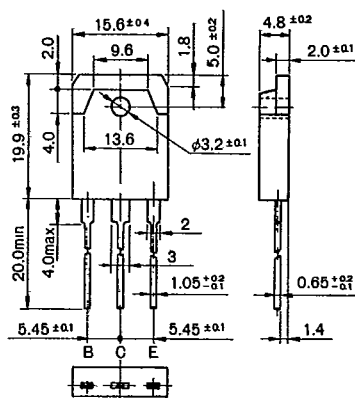
MT-25(TO220)



Weight: Approx. 2.6 g

Outline Drawings 2

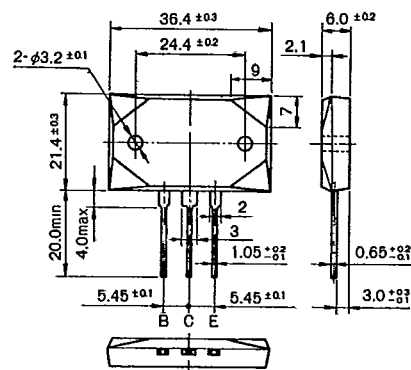
MT-100(TO3P)



Weight: Approx. 6.0 g

Outline Drawings 3

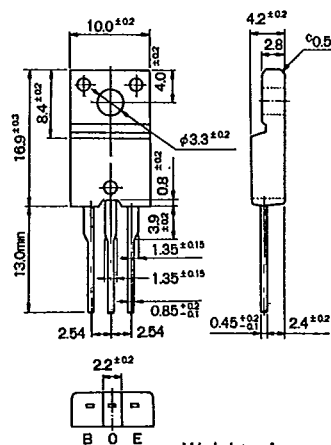
MT-200



Weight: Approx. 18.4 g

Outline Drawings 4

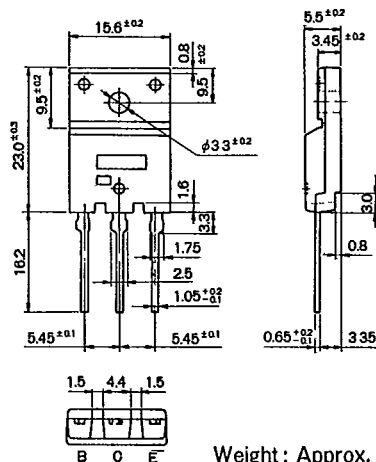
FM20



Weight: Approx. 2.0 g

Outline Drawings 5

FM100



Weight: Approx. 6.5 g

Accessories

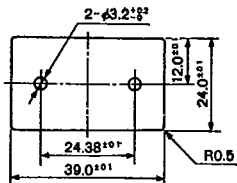
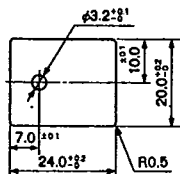
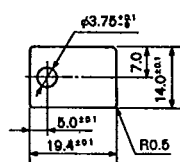
☆Sanken Transistors do not include accessories. Accessories may be attached at a cost if requested.

- Insulator: Mica, $t = 0.06^{+0.045}_{-0.005}$ mm

Type: MT-25 Mica (10)

Type: MT-100 Mica (14)

Type: MT-200 Mica (9)



- Insulation Bush for MT-25(TO220)

