

# 2SC2621



2009A

NPN Triple Diffused Planar Silicon Transistor

## Color TV Chroma Output Applications

©675A

### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Value	unit
Collector to Base Voltage	$V_{CB0}$	300	V
Collector to Emitter Voltage	$V_{CEO}$	300	V
Emitter to Base Voltage	$V_{EBO}$	6.5	V
Collector Current	$I_C$	200	mA
Peak Collector Current	$i_{cp}$	700	mA
Collector Dissipation	$P_C$	1.2	W
		$T_c=25^\circ\text{C}$	
		10	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

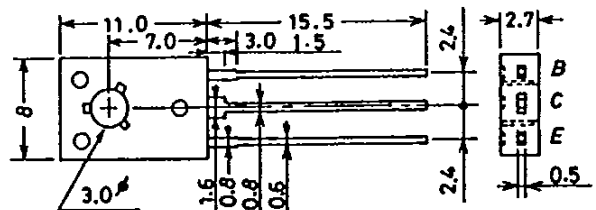
### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Test Conditions	min	typ	max	unit
Collector Cutoff Current	$I_{CB0}$	$V_{CB}=200\text{V}, I_E=0$			1.0	uA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=6\text{V}, I_C=0$			1.0	uA
DC Current Gain	$h_{FE}$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	40*		200*	
Gain Band-width Product	$f_T$	$V_{CE}=30\text{V}, I_C=10\text{mA}$	50			MHz
Output Capacitance	$c_{ob}$	$V_{CB}=50\text{V}, f=1\text{MHz}$			5	pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$			0.6	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$			1.0	V

\*: The 2SC2621 is classified by 10mA  $h_{FE}$  as follows :

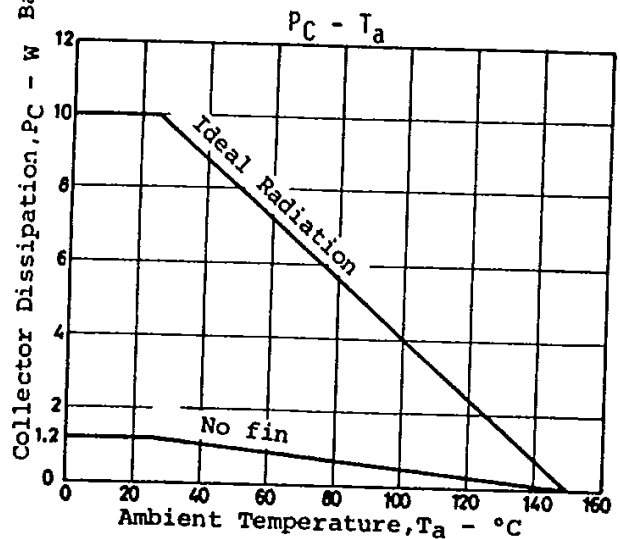
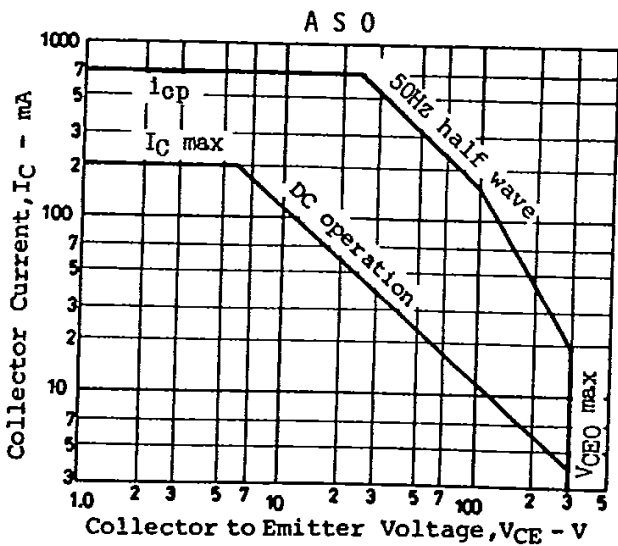
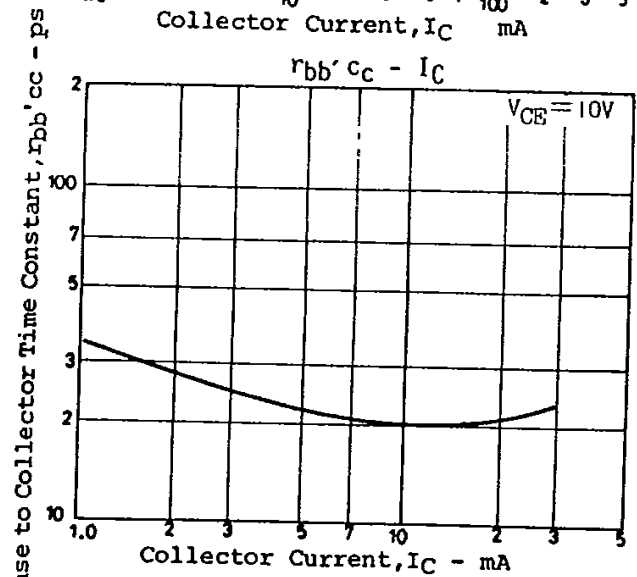
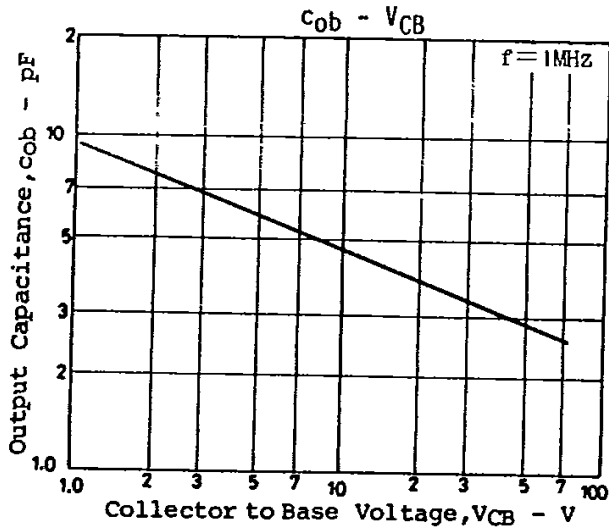
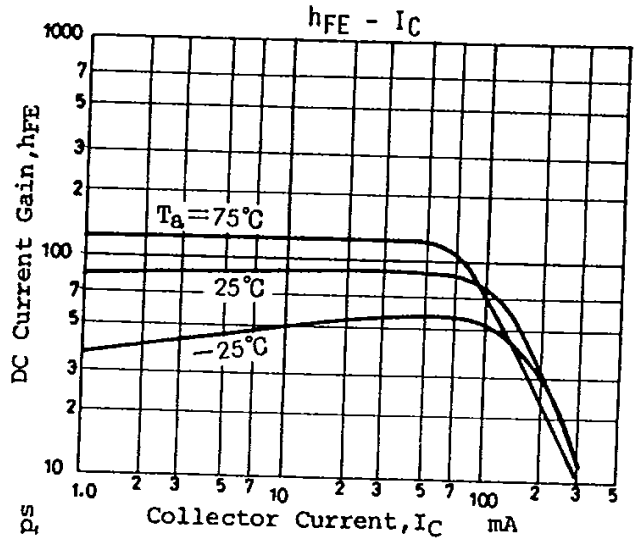
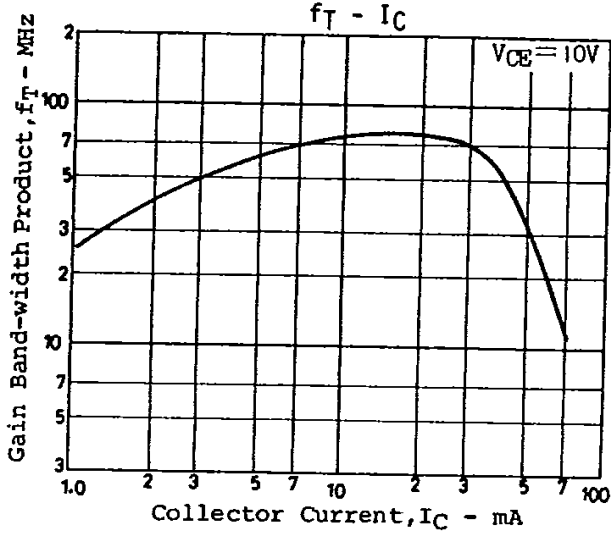
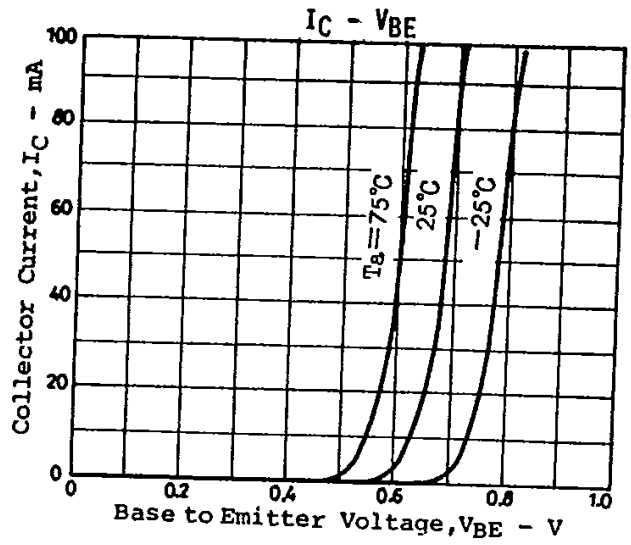
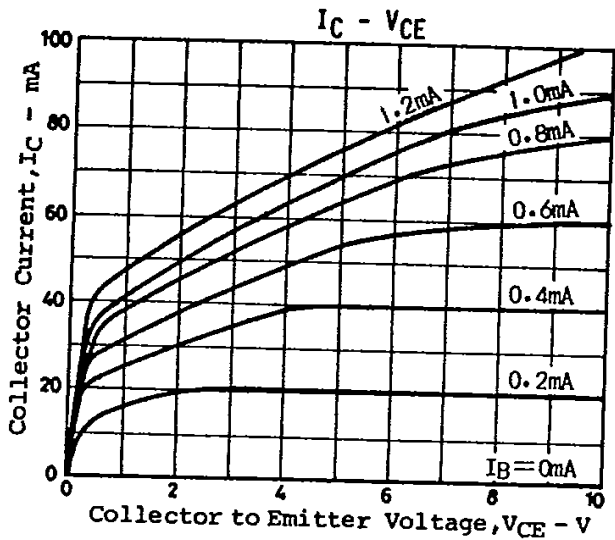
40	C	80	60	D	120	100	E	200
----	---	----	----	---	-----	-----	---	-----

### Case Outline 2009A (unit:mm)



JEDEC: TO-126

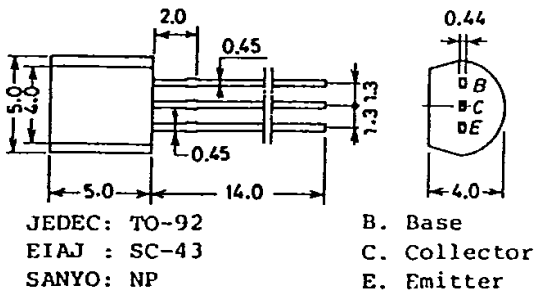
B: Base  
 C: Collector  
 E: Emitter



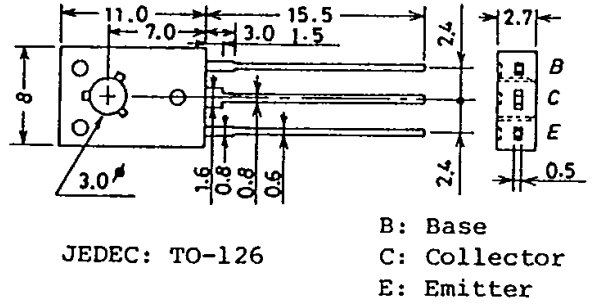
# CASE OUTLINES AND ATTACHMENTS

- All of Sanyo Transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

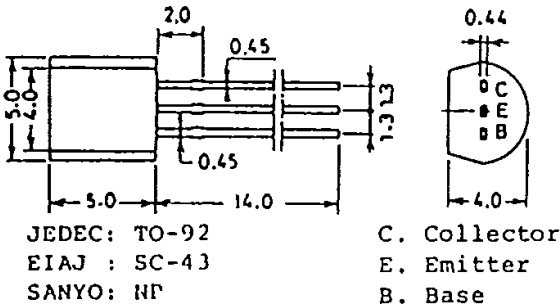
Case Outline—[2003A]  
unit:mm



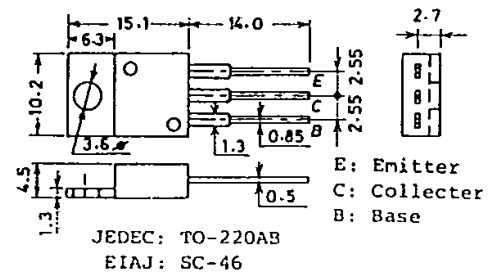
Case Outline—[2009A]  
unit:mm



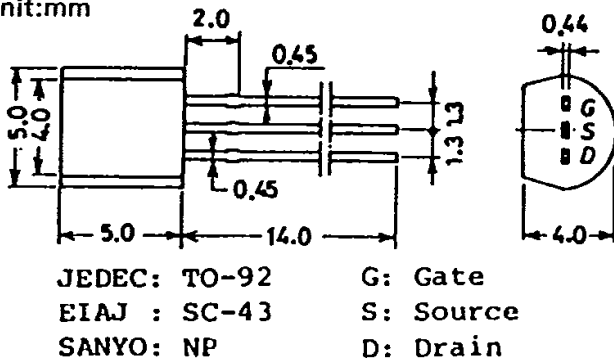
Case Outline—[2004A]  
unit:mm



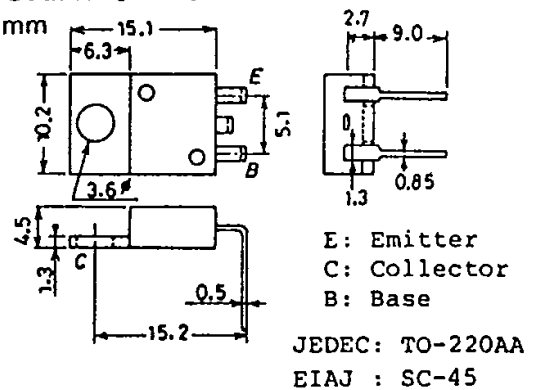
Case Outline—[2010A]  
unit:mm



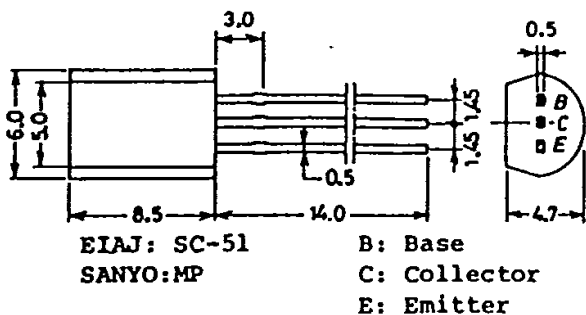
Case Outline—[2005A]  
unit:mm



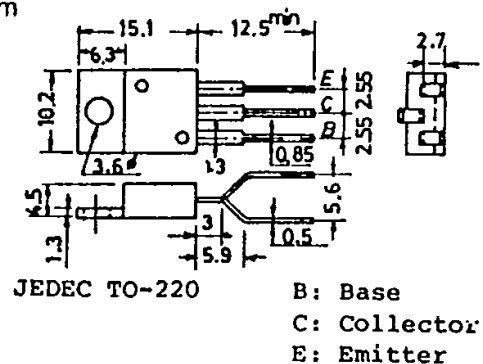
Case Outline—[2012]  
unit:mm



Case Outline—[2006A]  
unit:mm

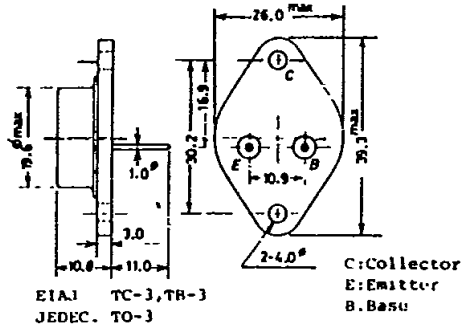


Case Outline—[2013]  
unit:mm



Case Outline-[2017]

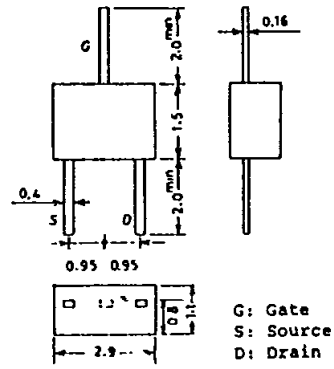
unit:mm



Case Outline-[2025]

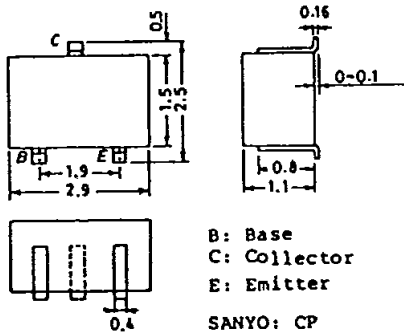
unit:mm

T-91-20



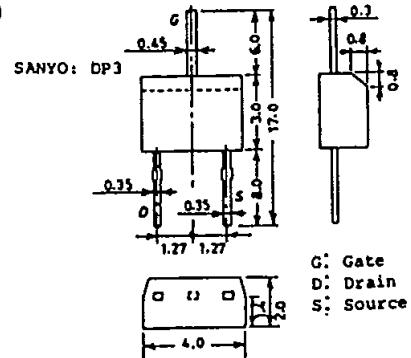
Case Outline-[2018A]

unit:mm



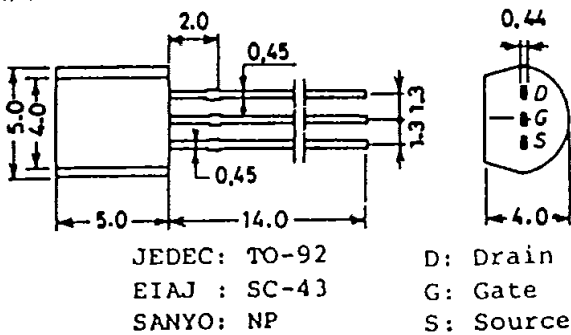
Case Outline-[2026]

unit:mm



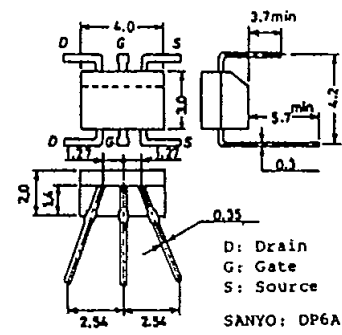
Case Outline-[2019A]

unit:mm



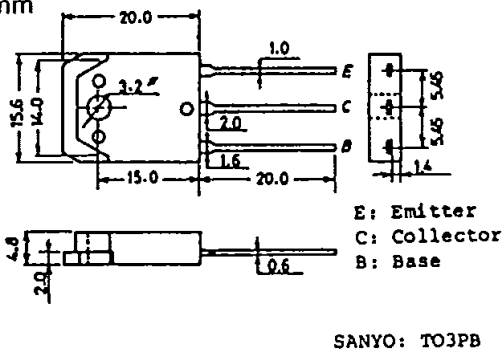
Case Outline-[2027A]

unit:mm



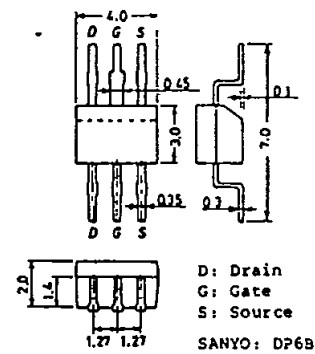
Case Outline-[2022]

unit:mm



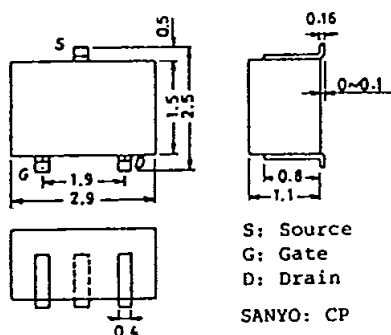
Case Outline-[2028A]

unit:mm



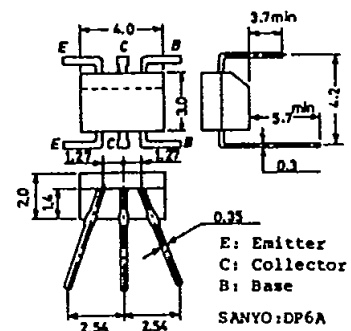
Case Outline-[2024A]

unit:mm



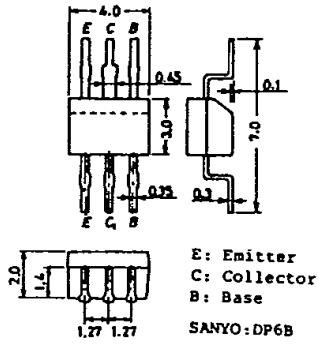
Case Outline-[2029A]

unit:mm



Case Outline-[2030A]

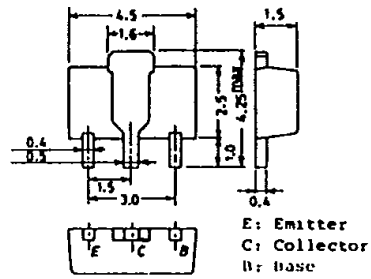
unit:mm



E: Emitter  
C: Collector  
B: Base  
SANYO: DP6B

Case Outline-[2038]

unit:mm

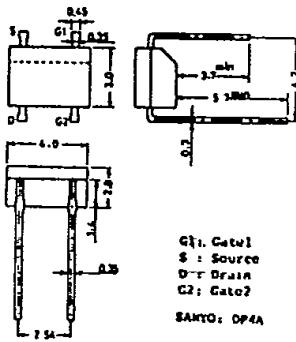


E: Emitter  
C: Collector  
B: Base  
SANYO: PCP

T-91-20

Case Outline-[2031A]

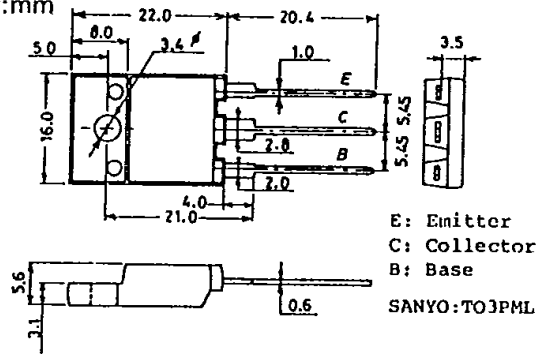
unit:mm



G1: Gate1  
S: Source  
D: Drain  
G2: Gate2  
SANYO: DP4A

Case Outline-[2039]

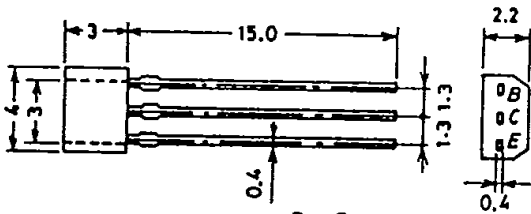
unit:mm



E: Emitter  
C: Collector  
B: Base  
SANYO: TO3PML

Case Outline-[2033]

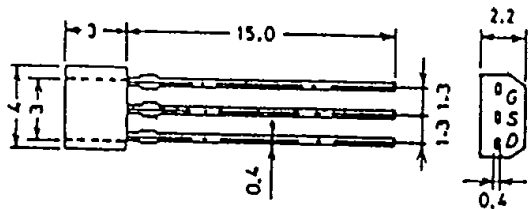
unit:mm



B: Base  
C: Collector  
E: Emitter  
SANYO: SPA

Case Outline-[2040]

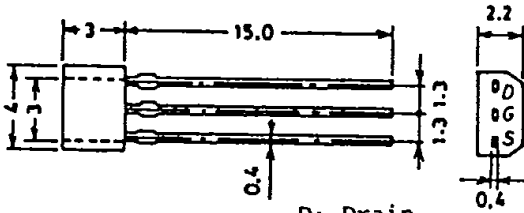
unit:mm



G: Gate  
S: Source  
D: Drain  
SANYO: SPA

Case Outline-[2034]

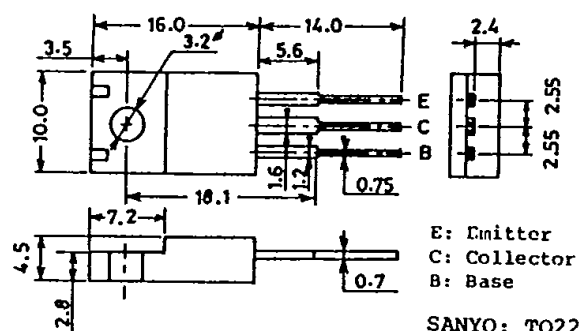
unit:mm



D: Drain  
G: Gate  
S: Source  
SANYO: SPA

Case Outline-[2041]

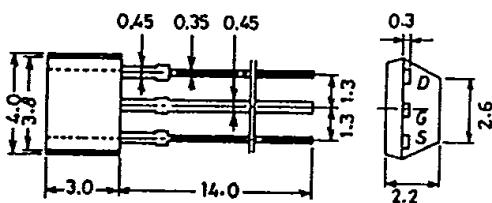
unit:mm



E: Emitter  
C: Collector  
B: Base  
SANYO: TO220ML

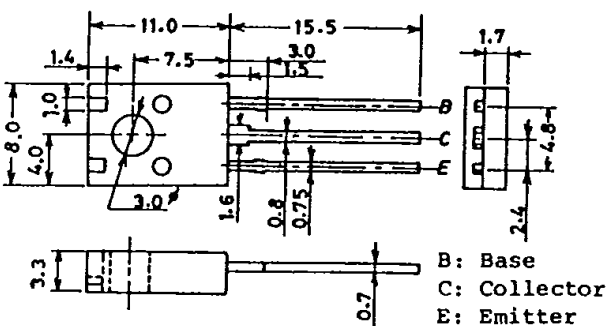
Case Outline-[2037]

unit:mm



D: Drain  
G: Gate  
S: Source  
SANYO: SP1

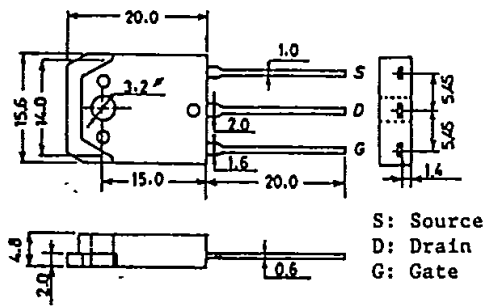
Case Outline-[2042A] unit:mm



B: Base  
C: Collector  
E: Emitter  
SANYO: TO126ML



Case Outline-[2056] unit:mm

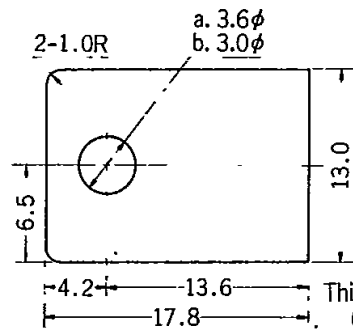


S: Source  
D: Drain  
G: Gate

SANYO: TO3PB

Case Outline-[0008] unit:mm

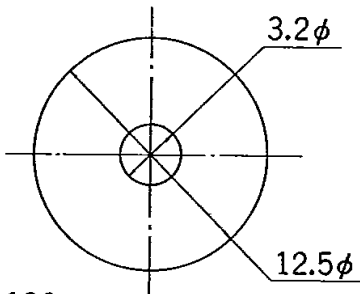
T-91-20



a. IS-313B  
b. IS-313D

SANYO

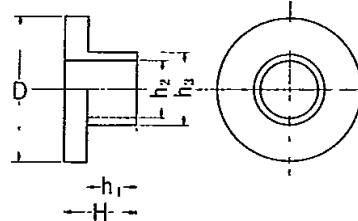
Case Outline-[0004] unit:mm



SANYO IS-126

Thickness : 0.075

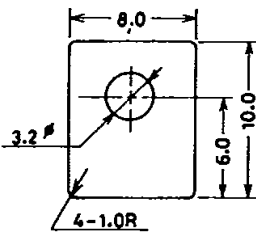
Case Outline-[0009] unit:mm



Bush	D	H	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>
A	8.0φ	4.0	2.8	3.1φ	3.89φ
B	8.0φ	3.0	1.8	3.1φ	3.89φ
C	8.0φ	5.7	4.5	3.1φ	3.89φ
D	8.0φ	2.7	1.5	3.1φ	3.89φ
E	8.0φ	3.4	2.2	3.1φ	3.89φ
F	8.0φ	4.0	2.8	3.0φ	3.59φ
K	16.0φ	3.4	1.4	3.1φ	6.0φ
L	6.0φ	3.1	1.5	2.6φ	3.5φ
M	6.0φ	3.1	1.5	3.0φ	3.59φ
P	6.0φ	2.3	1.1	3.0φ	3.59φ

SANYO Bush

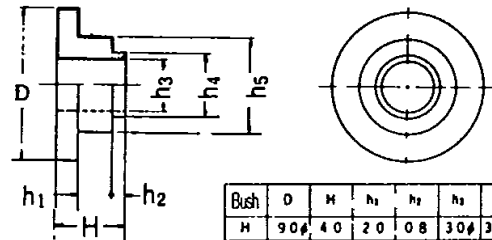
Case Outline-[0005] unit:mm



Thickness : 0.075

SANYO IS-126A Mica

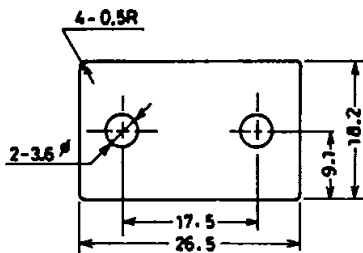
Case Outline-[0010] unit:mm



Bush	D	H	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>
H	9.0φ	4.0	2.0	0.8	3.0φ	3.59φ	5.6φ
T	9.0φ	5.8	2.0	2.6	3.0φ	3.59φ	5.6φ
UB	16.0φ	6.8	1.5	3.3	3.0φ	3.89φ	8.0φ

SANYO Bush

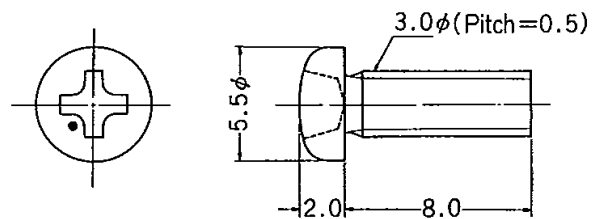
Case Outline-[0006] unit:mm



Thickness : 0.05~0.1

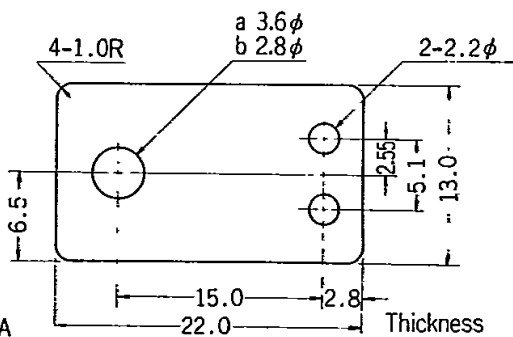
SANYO IS-20MA Mica

Case Outline-[0011] unit:mm



JIS No. B1111 M3×0.5

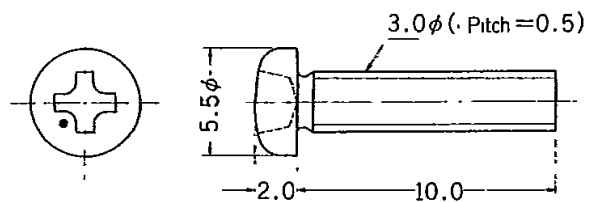
Case Outline-[0007] unit:mm



a. IS-313  
b. IS-313A

Thickness  
0.10~0.05

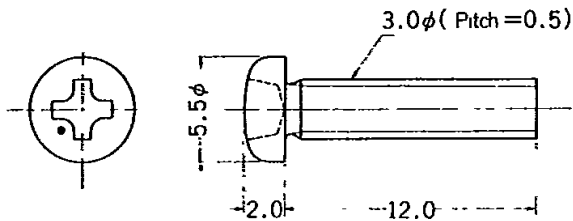
Case Outline-[0012] unit:mm



JIS No. B1111 M3×0.5

Case Outline-[0013]

unit:mm

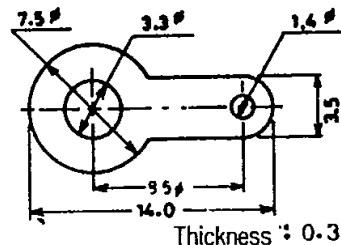


JIS No. B1111 M3×0.5

Case Outline-[0018]

unit:mm

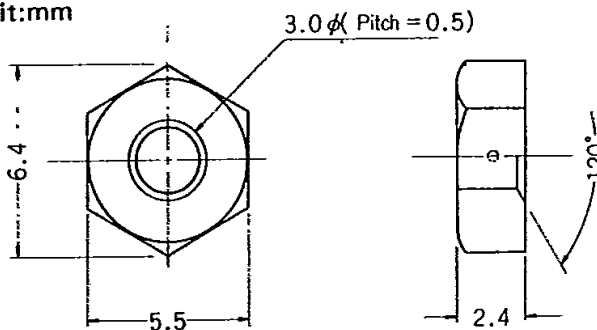
T=91-20



SANYO Lug 1.4

Case Outline-[0014]

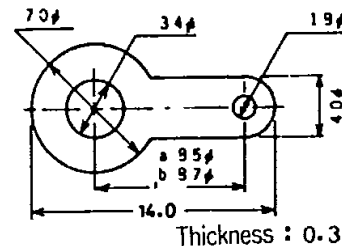
unit:mm



JIS No. B1181 M3×0.5

Case Outline-[0019]

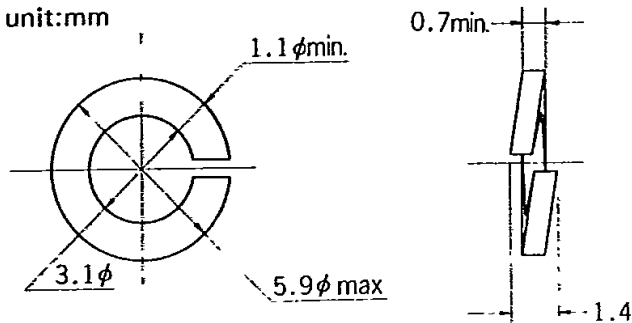
unit:mm



SANYO Lug 1.8φ

Case Outline-[0015]

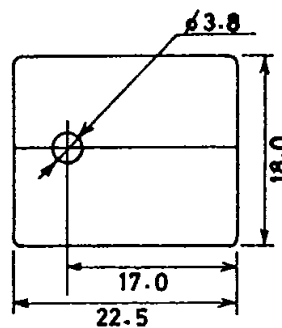
unit:mm



JIS No. B 1251 Spring washer (M3)

Case Outline-[0020]

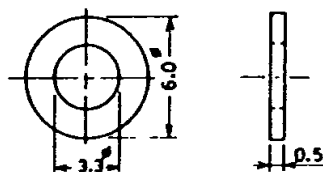
unit:mm



SANYO IS-3MP Mica

Case Outline-[0016]

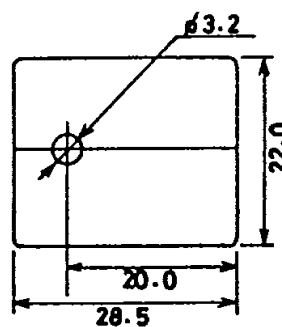
unit:mm



JIS No. B1252 Flat washer

Case Outline-[0021]

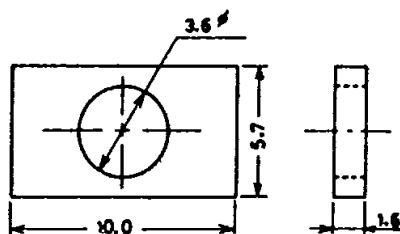
unit:mm



SANYO IS-MPC Mica

Case Outline-[0017]

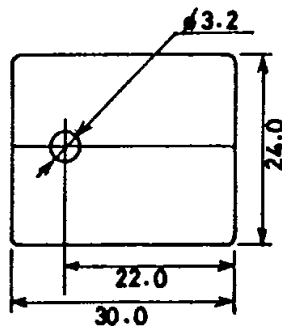
unit:mm



JIS No. G3141 Rectangular washer

Case Outline-[0022]

unit:mm



SANYO IS-3PBL Mica