

2SK376

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2037

N-Channel Junction Silicon Field-Effect Transistor

T-29-25

Capacitor Microphone Impedance Conversion Applications

⑤1432A

Features

- . Especially suited for use in audio, telephone capacitor microphones.
- . High yfs.
- . Excellent voltage characteristic.
- . Adoption of FBET process.

Absolute Maximum Ratings at Ta=25°C

Absolute Maximum Ratings at Ta=25°C			unit
Gate-Drain Voltage	V _{GDO}	-20	V
Gate Current	I _G	10	mA
Allowable Power Dissipation	P _D	100	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics at Ta=25°C

Electrical Characteristics at Ta=25°C		min	typ	max	unit
Drain Current	I_{DSS} $V_{DS}=5V, V_{GS}=0$	60*		800*	uA

* The 2SK376 is classified by drain current I_{DSS} as follows (unit:uA):

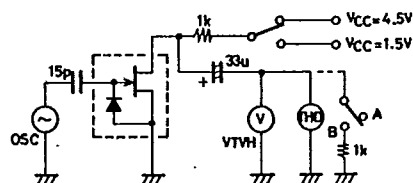
60	J	180	150	K	300	250	L	500	400	M	800
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[Ta=25°C, V_{CC}=4.5V, R_T=1kohm, c_{in}=15pF, Specified Test Circuit]

Ta=25°C, V _{CC} =4.5V, R _L =1kohm, cin=15pF, Specified Test Circuit]			min	typ	max	unit
Transmission Loss	G _V	f=1kHz, V _{in} =100mV		-3.5		dB
Reduced Voltage Characteristic	ΔG _{VV}	f=1kHz, V _{in} =100mV V _{CC} =4.5 to 1.5V			-3	dB
Frequency Response	ΔG _{Vf}	f=1kHz to 110Hz, V _{in} =100mV			-1	dB
Input Impedance	Z _{in}	f=1kHz	18.0			Mohm
Output Impedance	Z _o	f=1kHz			1.0	kohm
Total Harmonic Distortion	THD	f=1kHz, V _{in} =100mV		3		%
Output Noise Voltage	V _{NO}	V _{in} =0, A curve			-110	dB

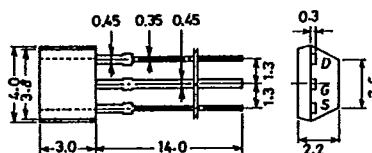
Specified Test Circuit

Transmission loss
Frequency response
Distortion
Reduced voltage characteristic



For output impedance

Case Outline 2037
(unit:mm)

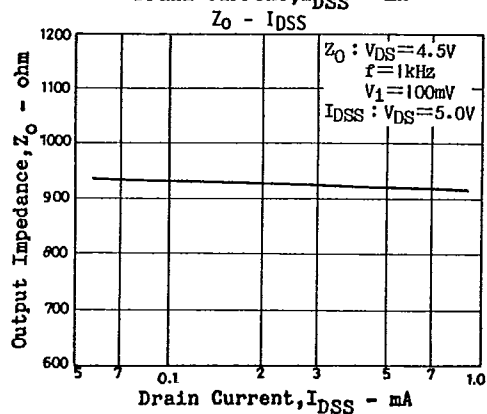
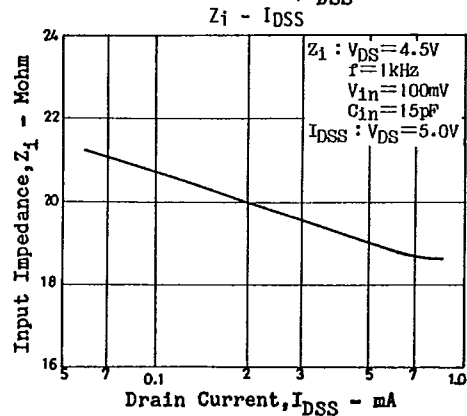
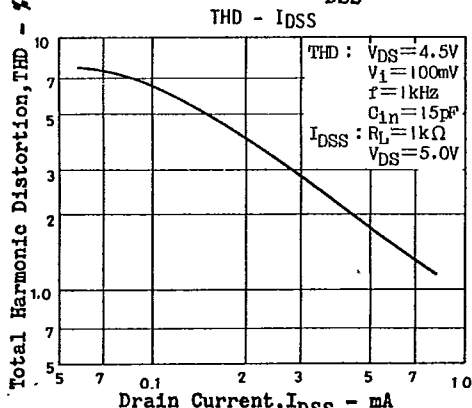
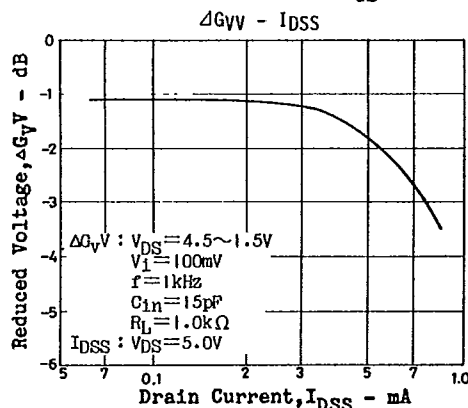
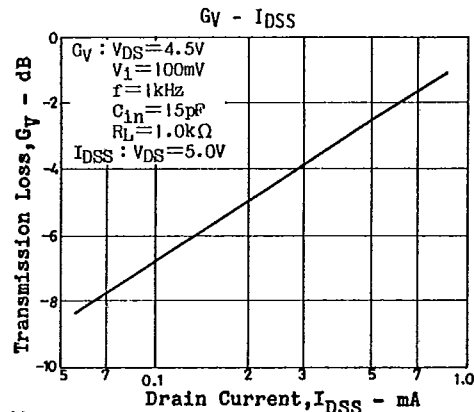
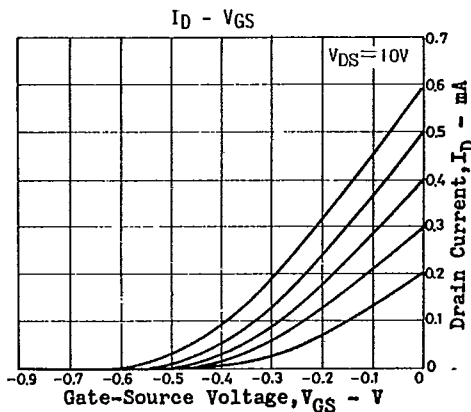
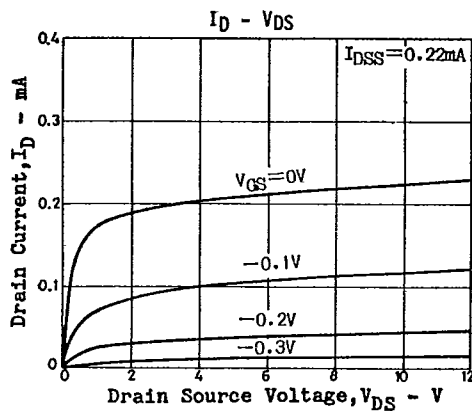
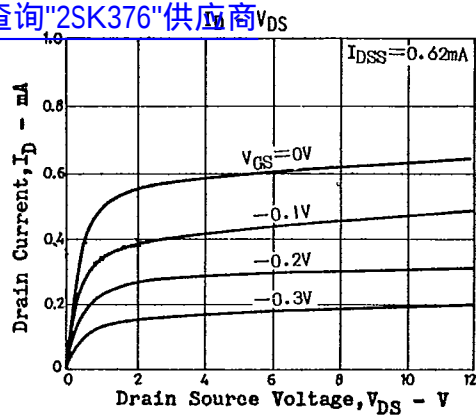


D: Drain
G: Gate
S: Source
SANYO: SP

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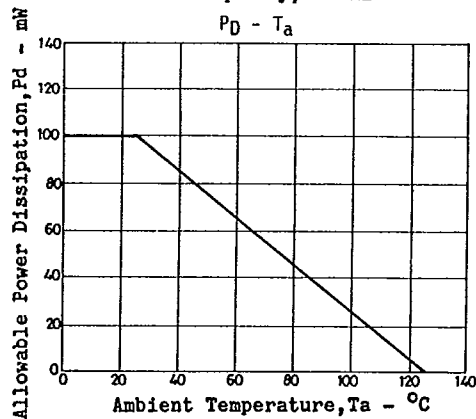
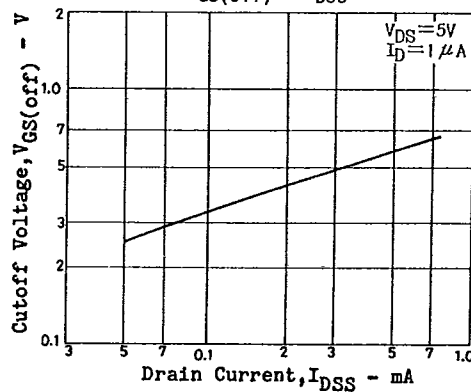
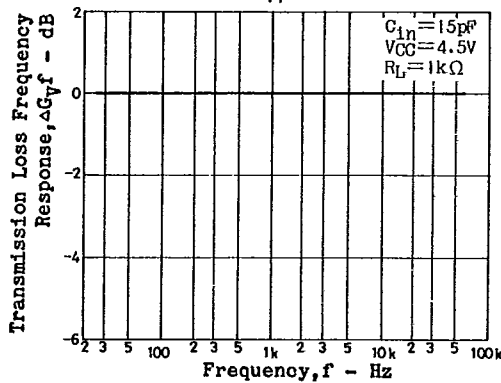
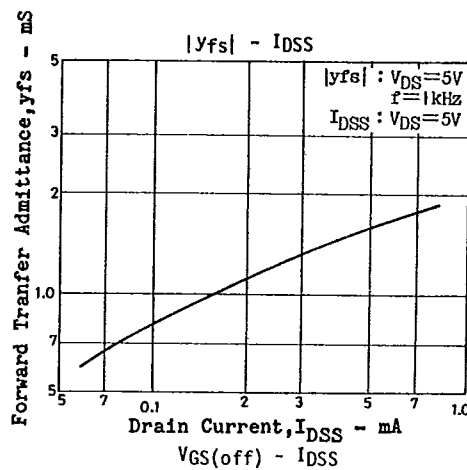
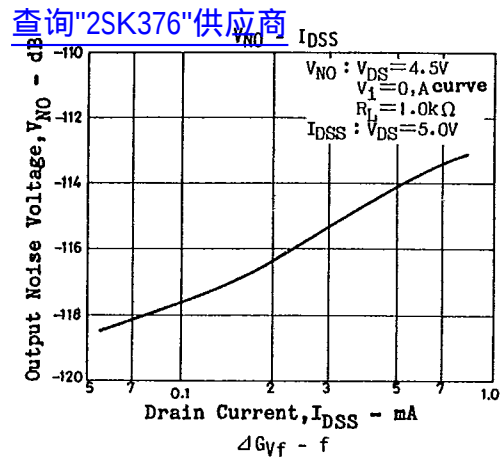
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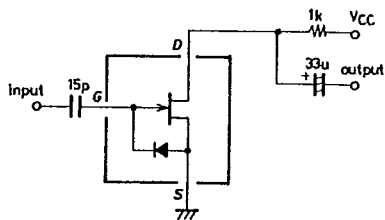
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Sample Application Circuit: 2-wire type



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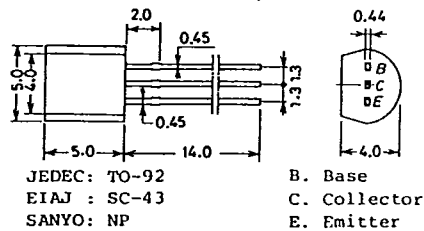
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CASE OUTLINES AND ATTACHMENTS

- 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.

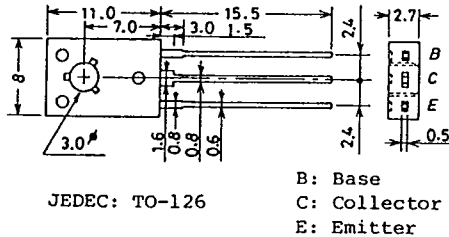
Case Outline—[2003A]

unit:mm



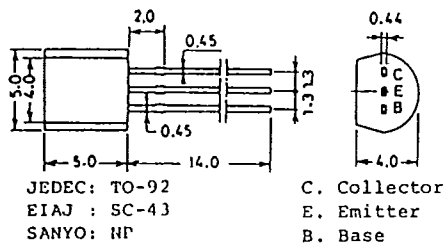
Case Outline—[2009A]

unit:mm



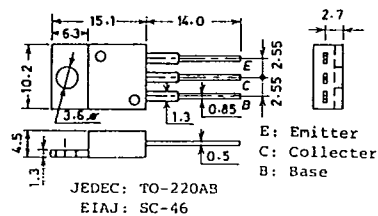
Case Outline—[2004A]

unit:mm



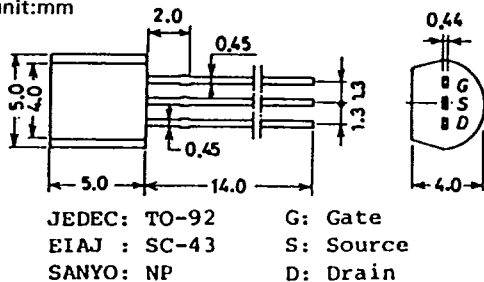
Case Outline—[2010A]

unit:mm



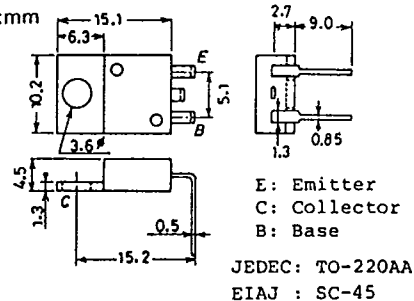
Case Outline—[2005A]

unit:mm



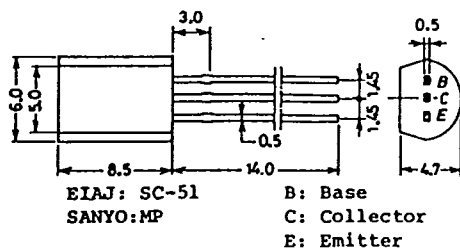
Case Outline—[2012]

unit:mm



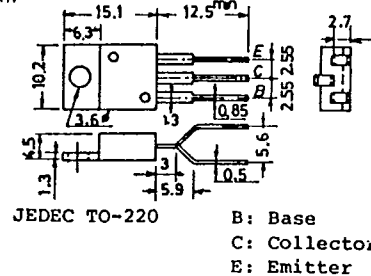
Case Outline—[2006A]

unit:mm



Case Outline—[2013]

unit:mm



SANYO : DP6A

E: Emitter
C: Collector
B: Base

SANYO: DP6B

E: Emitter
C: Collector
B: Base

G1: Catw1
\$: Source
D-r Drain
G2: Gate2
SANYO: Osaka

E: Emitter
C: Collector
B: Base

SANYO:TO3PML

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

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

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

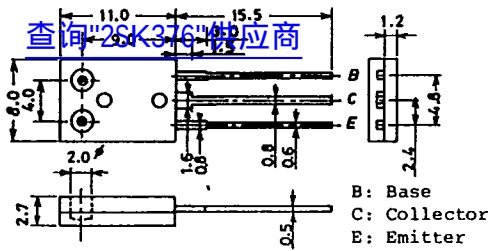
E: Emitter
C: Collector
B: Base

SANYO: TO22

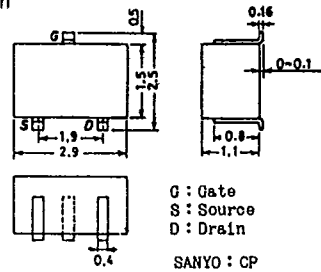
D: Drain
G: Gate
S: Source
SANYO: SP'

SANYO: TO126ML

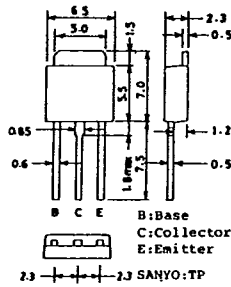
Case Outline—[2043A] unit:mm



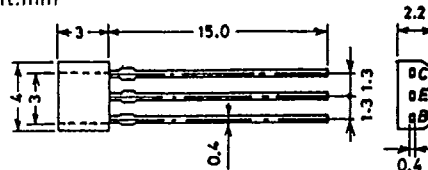
SANYO: TO126LP

Case Outline—[2050]
unit:mm

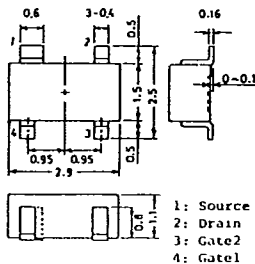
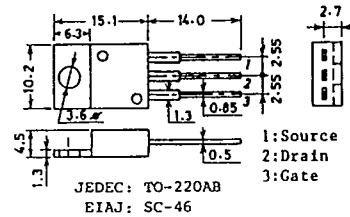
SANYO: CP

Case Outline—[2045]
unit:mm

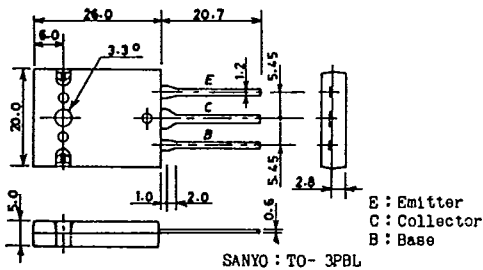
SANYO: TP

Case Outline—[2051]
unit:mm

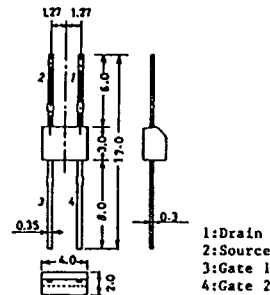
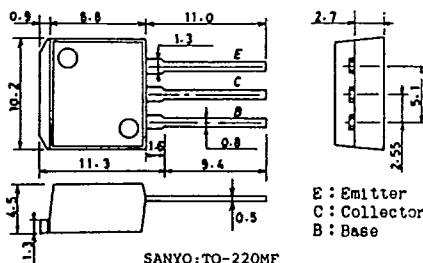
SANYO: SPA

Case Outline—[2046]
unit:mmCase Outline—[2052A]
unit:mm

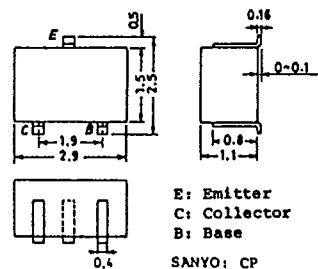
Case Outline—[2048] unit:mm



SANYO: TO-3PBL

Case Outline—[2053]
unit:mmCase Outline—[2049]
unit:mm

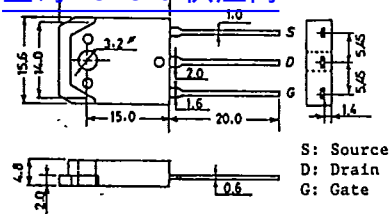
SANYO: TO-220MF

Case Outline—[2054]
unit:mm

SANYO: CP

Case Outline—[2056] unit:mm

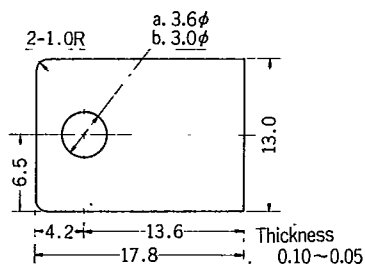
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SANYO: TO3PB

Case Outline—[0008] unit:mm

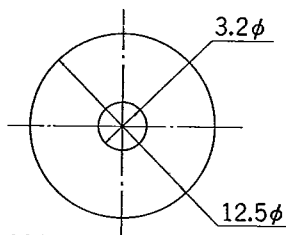
unit:mm

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

SANYO

Case Outline—[0004] unit:mm

unit:mm

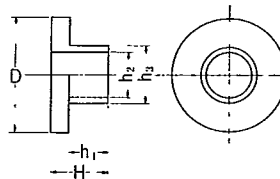


SANYO IS-126

Thickness : 0.075

Case Outline—[0009] unit:mm

unit:mm

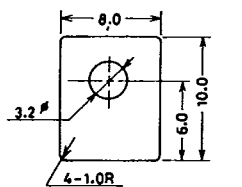


SANYO Bush

Bush	D	H	h ₁	h ₂	h ₃
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

Case Outline—[0005] unit:mm

unit:mm

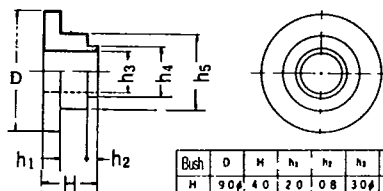


Thickness : 0.075

SANYO IS-126A Mica

Case Outline—[0010] unit:mm

unit:mm

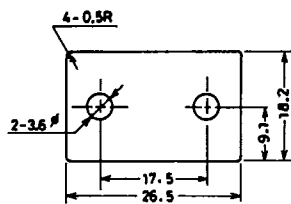


SANYO Bush

Bush	D	H	h ₁	h ₂	h ₃	h ₄	h ₅
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

Case Outline—[0006] unit:mm

unit:mm

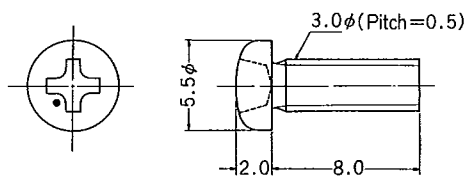


Thickness : 0.05~0.1

SANYO IS-20MA Mica

Case Outline—[0011] unit:mm

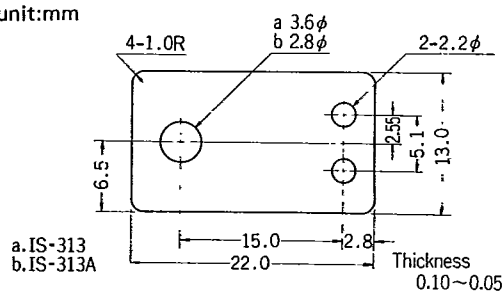
unit:mm



JIS No. B1111 M3×0.5

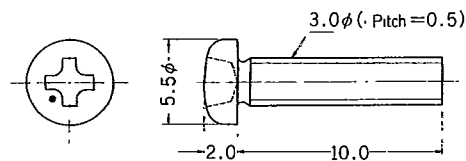
Case Outline—[0007] unit:mm

unit:mm



Case Outline—[0012] unit:mm

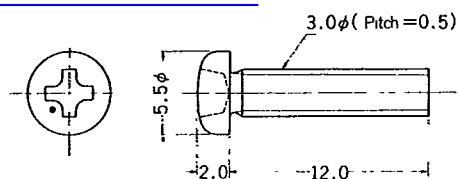
unit:mm



JIS No. B1111 M3×0.5

Case Outline—[0013]

unit:mm

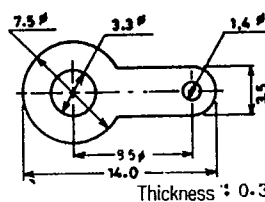
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JIS No. B1111 M3×0.5

Case Outline—[0018]

unit:mm

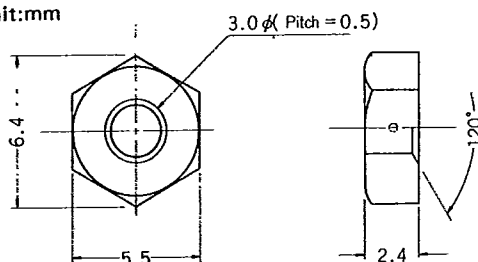
T=91-20



SANYO Lug 1.4

Case Outline—[0014]

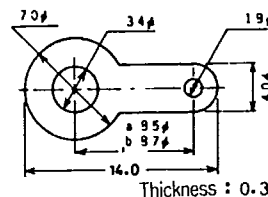
unit:mm



JIS No. B1181 M3×0.5

Case Outline—[0019]

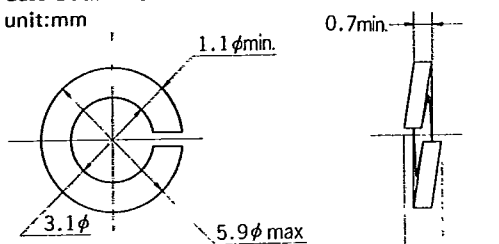
unit:mm



SANYO Lug 1.8φ

Case Outline—[0015]

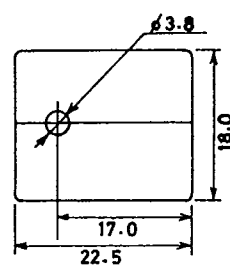
unit:mm



JIS No. B 1251 Spring washer (M3)

Case Outline—[0020]

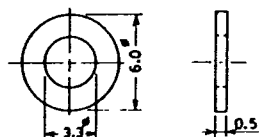
unit:mm



SANYO IS-3MP Mica

Case Outline—[0016]

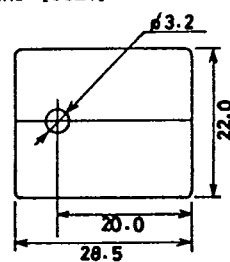
unit:mm



JIS No. B1252 Flat washer

Case Outline—[0021]

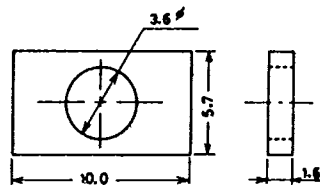
unit:mm



SANYO IS-MPC Mica

Case Outline—[0017]

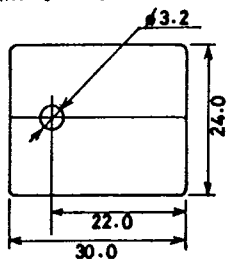
unit:mm



JIS No. G3141 Rectangular washer

Case Outline—[0022]

unit:mm



SANYO IS-3PBL Mica