

2SB1273

2010A

PNP Epitaxial Planar Silicon Transistor

T-33-19

Low Frequency Power Amp Applications

©2332

Applications

- . Power amp

Features

- . Wide ASO (adoption of MBIT process)
- . Low saturation voltage
- . High reliability

Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V_{CB0}	-60	V
Collector to Emitter Voltage	V_{CE0}	-60	V
Emitter to Base Voltage	V_{EB0}	-6	V
Collector Current	I_C	-3	A
Peak Collector Current	i_{cp}	-8	A
Collector Dissipation	P_C	1.75	W
		30	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Tc=25°C

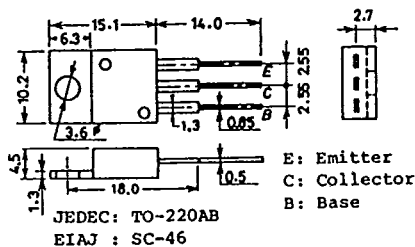
Electrical Characteristics at Ta=25°C

		min	typ	max	unit
Collector Cutoff Current	I_{CB0}			-100	uA
Emitter Cutoff Current	I_{EB0}			-100	uA
DC Current Gain	$h_{FE}(1)$		70*	280*	
	$h_{FE}(2)$		20		
Gain-Bandwidth Product	f_T		100		MHz
Output Capacitance	c_{ob}		60		pF
C-E Saturation Voltage	$V_{CE(sat)}$	-0.4	-1		V
Base to Emitter Voltage	V_{BE}	-0.8	-1		V
C-B Breakdown Voltage	$V_{(BR)CBO}$	-60			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	-60			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	-6			V

*:The 2SB1273 is classified by 0.5A h_{FE} as follows:

70	Q	140	100	R	200	140	S	280
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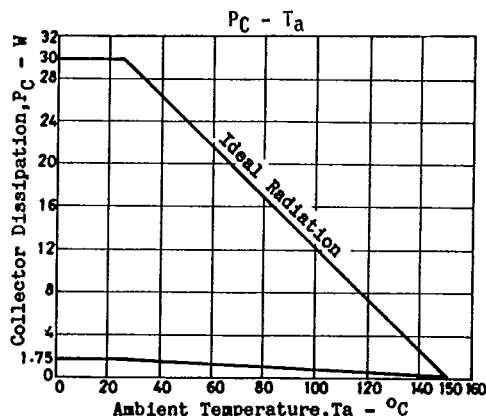
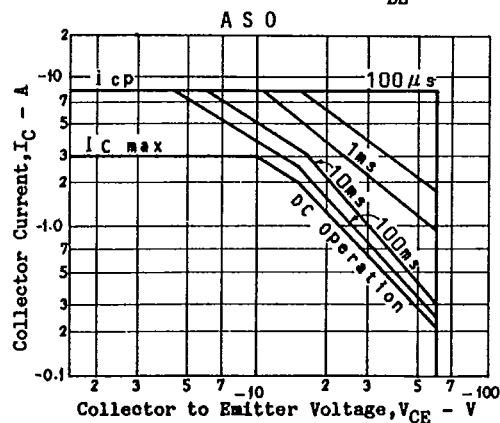
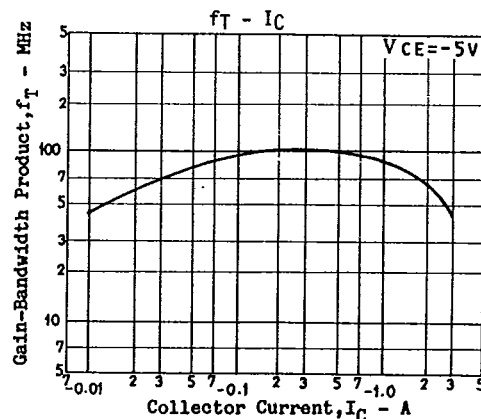
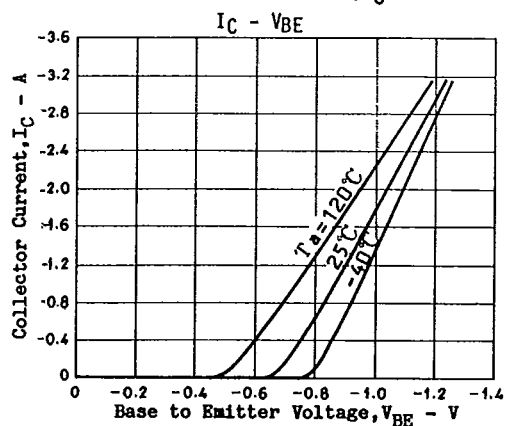
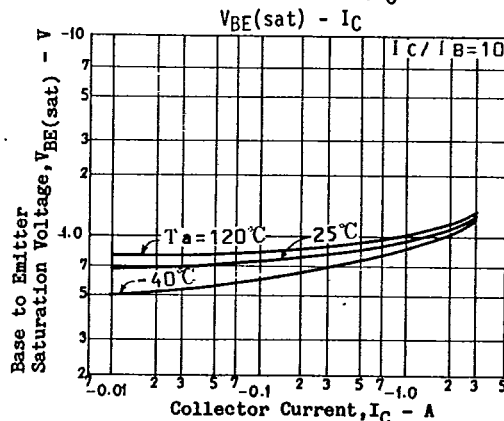
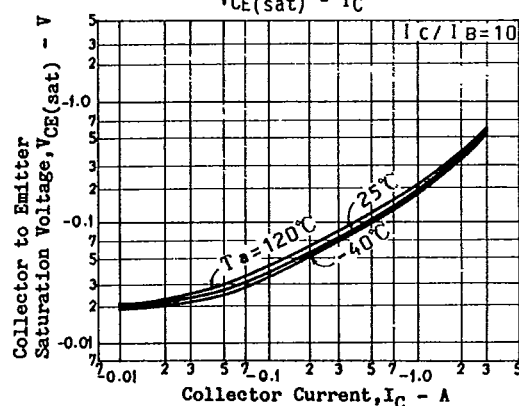
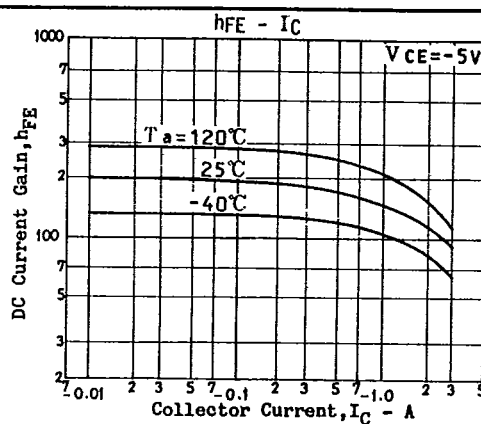
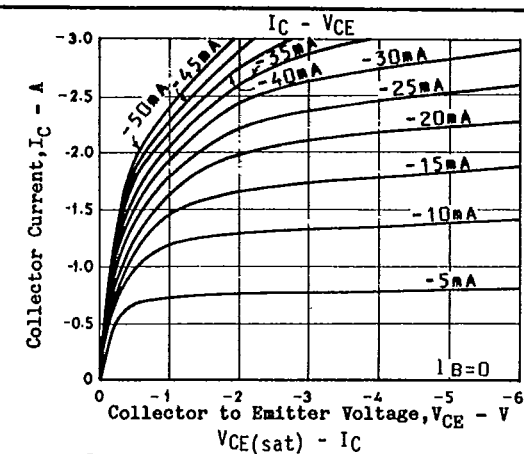
Case Outline 2010A (unit:mm)



2247TA, TS No.2332-1/2

2SB1273

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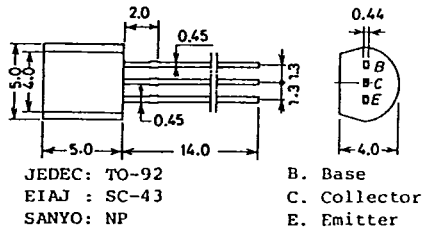
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CASE OUTLINES AND ATTACHMENTS

- 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.

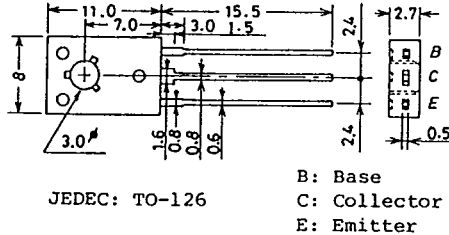
Case Outline—[2003A]

unit:mm



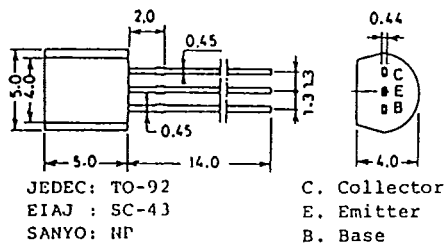
Case Outline—[2009A]

unit:mm



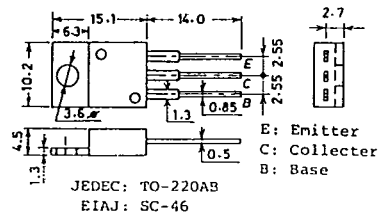
Case Outline—[2004A]

unit:mm



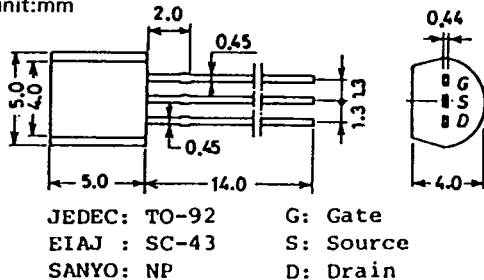
Case Outline—[2010A]

unit:mm



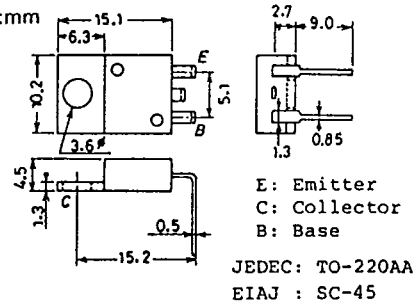
Case Outline—[2005A]

unit:mm



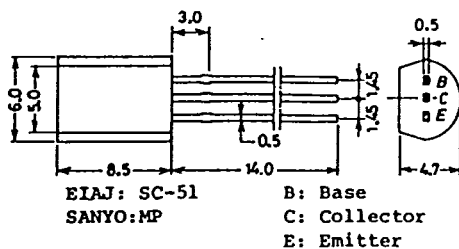
Case Outline—[2012]

unit:mm



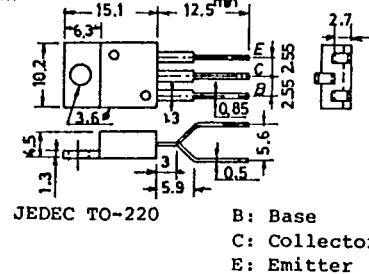
Case Outline—[2006A]

unit:mm

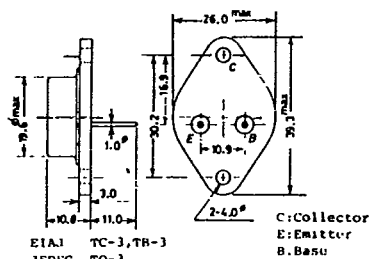


Case Outline—[2013]

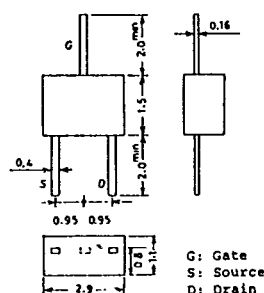
unit:mm



unit:mm

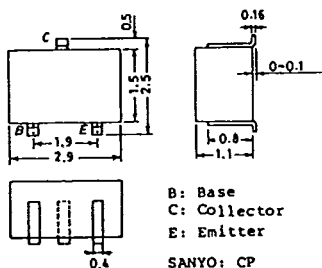


unit:mm

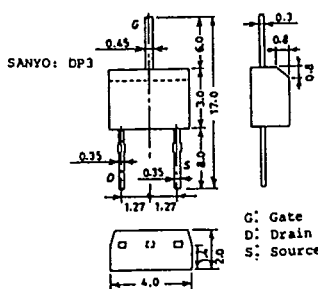


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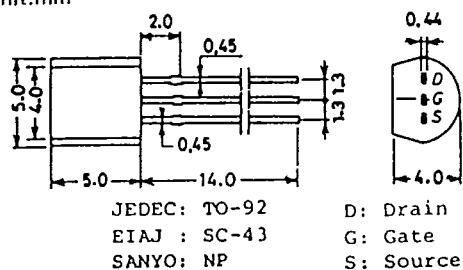
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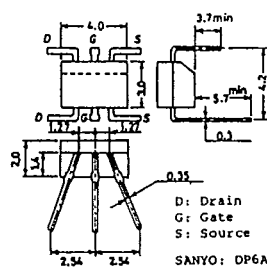
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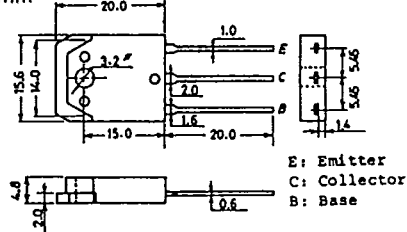
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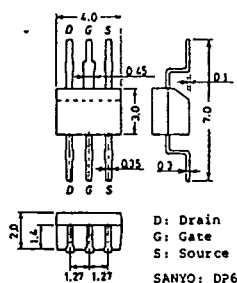
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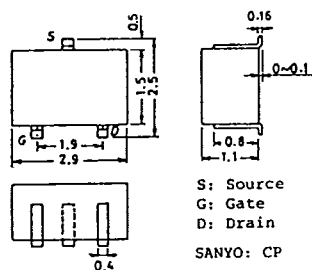
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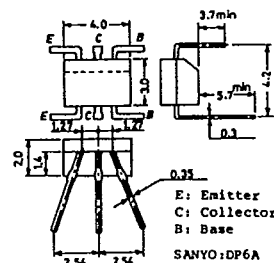
unit:mm



unit:mm



unit:mm



T-91-20

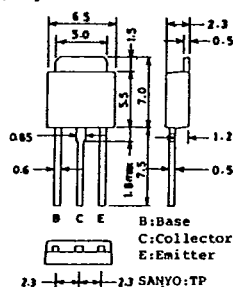
SANYO: TO126LP



SANYO : CP

unit:mm

unit:mm

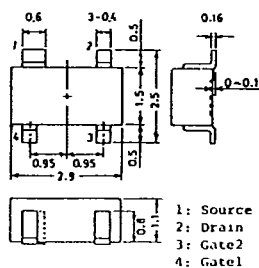


B:Base
C:Collector
E:Emitter

SANYO:TP

unit:mm

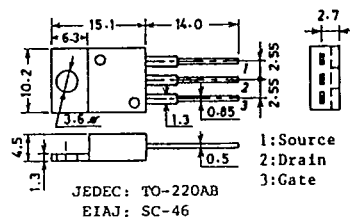
unit:mm



```

1: Source
2: Drain
3: Gate2
4: Gate1

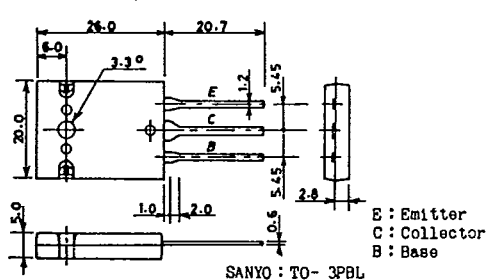
```



1:Source
2:Drain
3:Gate

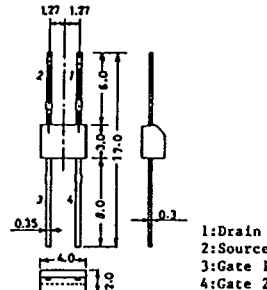
JEDEC: TO-220AB
EIAJ: SC-46

unit:mm



E : Emitter
C : Collector
B : Base

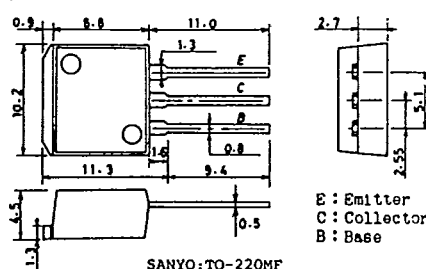
SANYO : TO- 3PBL



1: Drain
2: Source
3: Gate 1
4: Gate 2

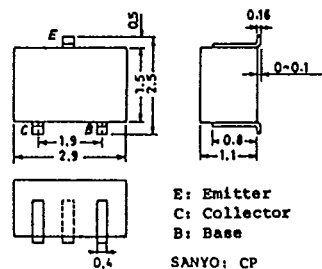
unit:mm

unit:mm



E : Emitter
C : Collector
B : Base

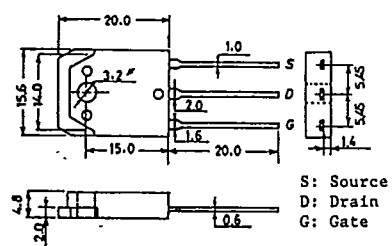
SANYO:TO-220MF



E: Emitter
C: Collector
B: Base

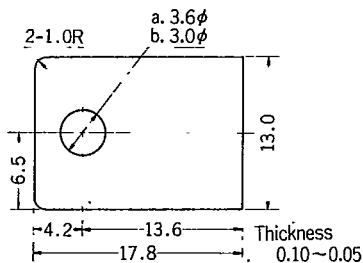
SANYO: CP

Case Outline—[2056] unit:mm



SANYO: TO3PB

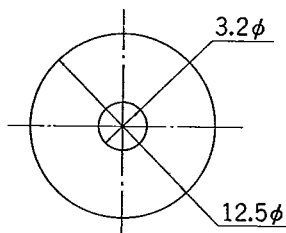
Case Outline—[0008] unit:mm

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

SANYO

Case Outline—[0004] unit:mm

unit:mm

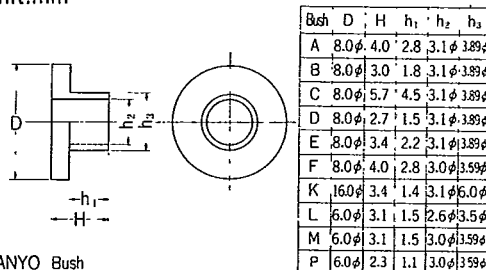


SANYO IS-126

Thickness : 0.075

Case Outline—[0009] unit:mm

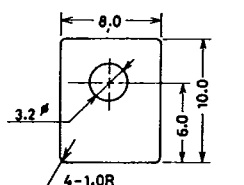
unit:mm



SANYO Bush

Case Outline—[0005] unit:mm

unit:mm

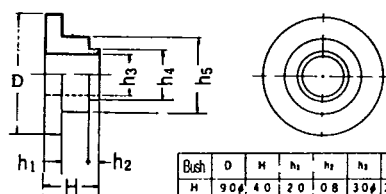


Thickness : 0.075

SANYO IS-126A Mica

Case Outline—[0010] unit:mm

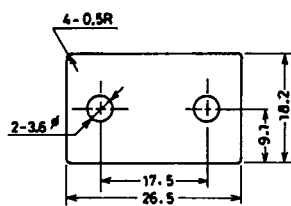
unit:mm



SANYO Bush

Case Outline—[0006] unit:mm

unit:mm

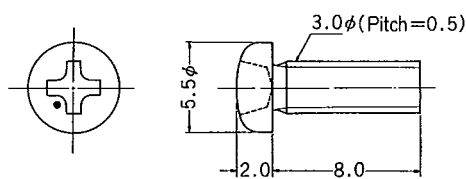


Thickness : 0.05~0.1

SANYO IS-20MA Mica

Case Outline—[0011] unit:mm

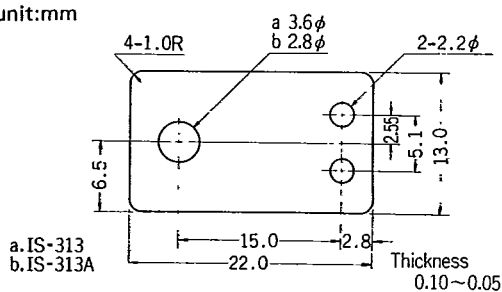
unit:mm



JIS No. B1111 M3×0.5

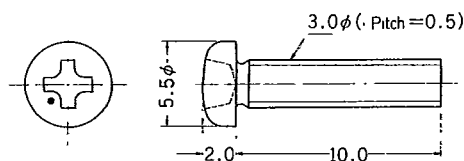
Case Outline—[0007] unit:mm

unit:mm



Case Outline—[0012] unit:mm

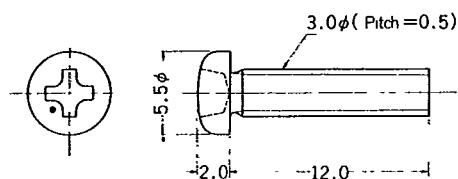
unit:mm



JIS No. B1111 M3×0.5

Case Outline—[0013]

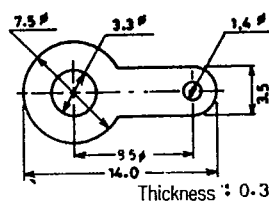
unit:mm



JIS No. B1111 M3×0.5

Case Outline—[0018]

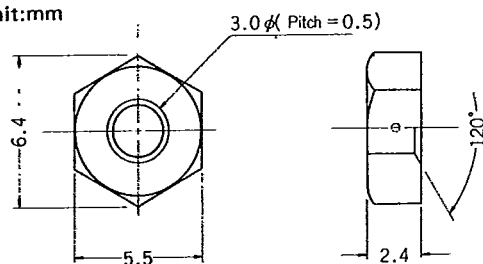
unit:mm



SANYO Lug 1.4

Case Outline—[0014]

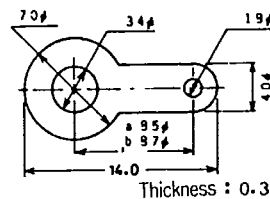
unit:mm



JIS No. B1181 M3×0.5

Case Outline—[0019]

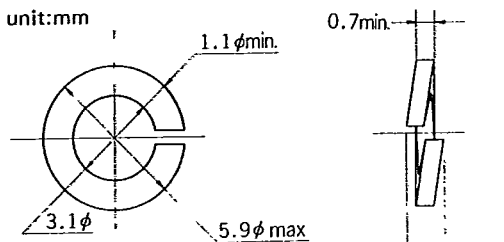
unit:mm



SANYO Lug 1.8φ

Case Outline—[0015]

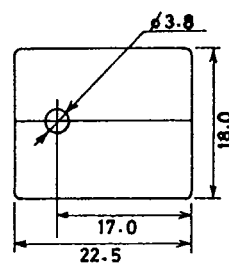
unit:mm



JIS No. B 1251 Spring washer (M3)

Case Outline—[0020]

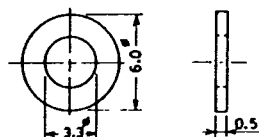
unit:mm



SANYO IS-3MP Mica

Case Outline—[0016]

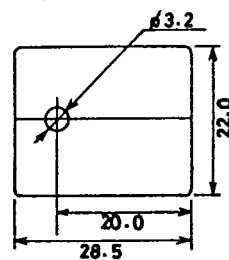
unit:mm



JIS No. B1252 Flat washer

Case Outline—[0021]

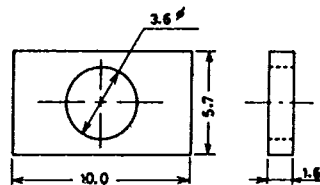
unit:mm



SANYO IS-MPC Mica

Case Outline—[0017]

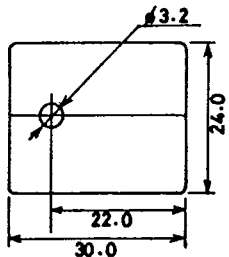
unit:mm



JIS No. G3141 Rectangular washer

Case Outline—[0022]

unit:mm



SANYO IS-3PBL Mica