

2SK1065

T-31-25

2057

N-Channel Junction Silicon FET

High-Frequency General-Purpose Amp Applications

©2746

Features

- Very small-sized package permitting 2SK1065-applied sets to be made smaller and slimmer
- Small c_{rss} ($c_{rss} = 0.04\text{pF}$ typ)

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

		unit
Gate to Drain Voltage	V_{GD0}	-20 V
Gate Current	I_G	10 mA
Drain Current	I_D	20 mA
Allowable Power Dissipation	P_D	150 mW
Junction Temperature	T_j	150 $^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150 $^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

		min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GD0}$	-20			V
Gate Cutoff Current	I_{GSS}			-10	nA
Cutoff Voltage	$V_{GS(off)}$	-0.4	-1.3	-2.5	V
Drain Current	I_{DSS}	≈ 1.2		≈ 12.0	mA
Forward Transfer Admittance	$Y_{fs1}(1)$	2.4	6.0		mS
	$Y_{fs1}(2)$	2.4	6.0		mS
Input Capacitance	c_{iss}		4.0		pF
Reverse Transfer Capacitance	c_{rss}		0.04	0.15	pF
Output Capacitance	c_{oss}		4.0		pF
Power Gain	PG		24		dB
Noise Figure	NF		3.5	6.0	dB

※: The 2SK1065 is classified by I_{DSS} as follows (unit: mA):

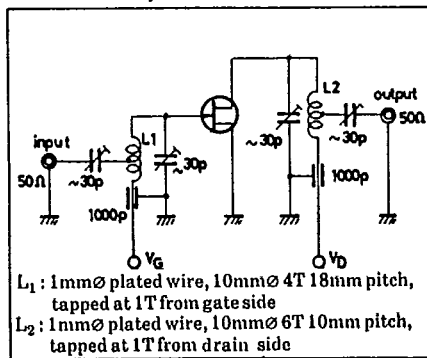
1.2	3	3.0	2.5	4	6.0	5.0	5	12.0
-----	---	-----	-----	---	-----	-----	---	------

(Note) Marking: T

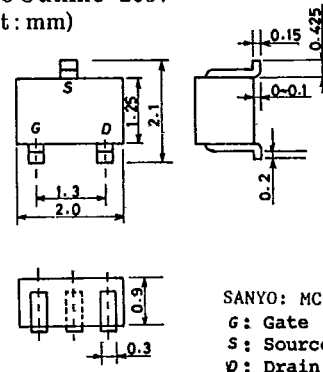
I_{DSS} rank: 3,4,5

• For CP package version, use the 2SK242.

PG, NF Test Circuit

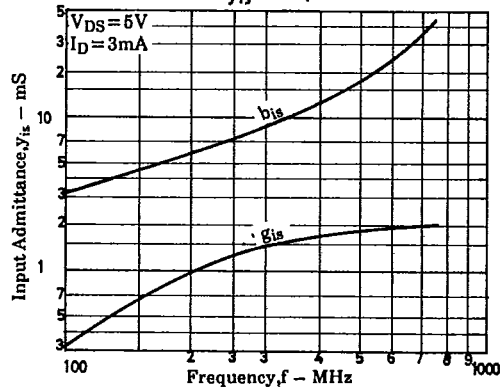
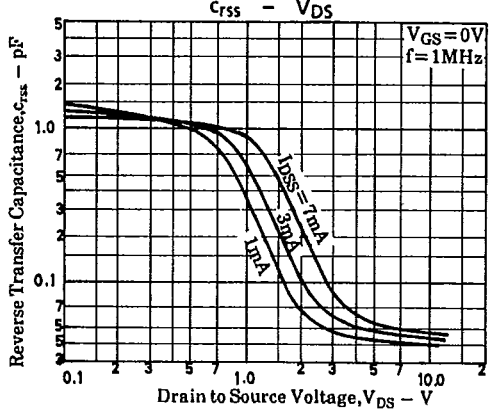
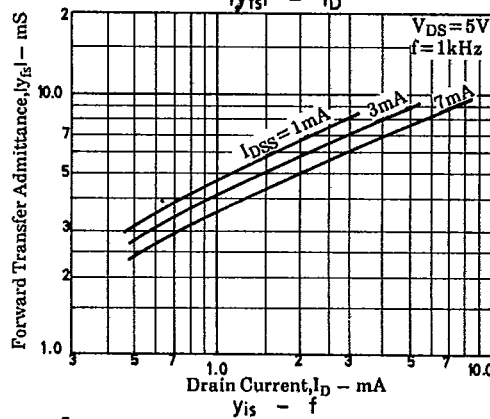
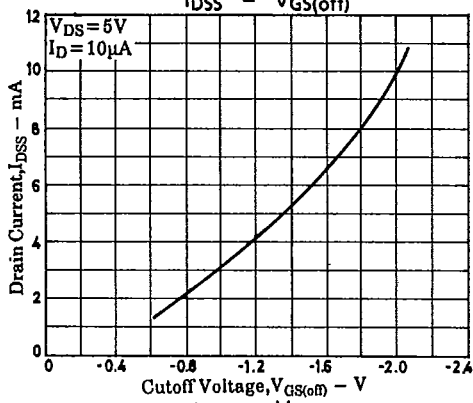
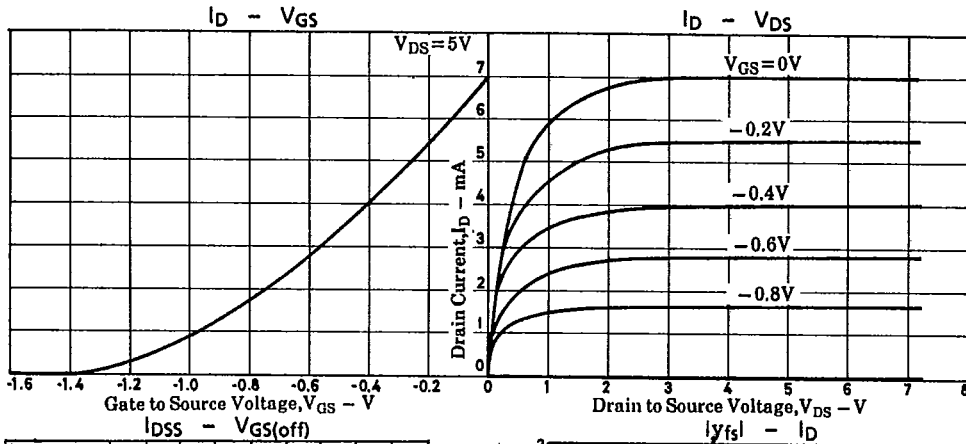
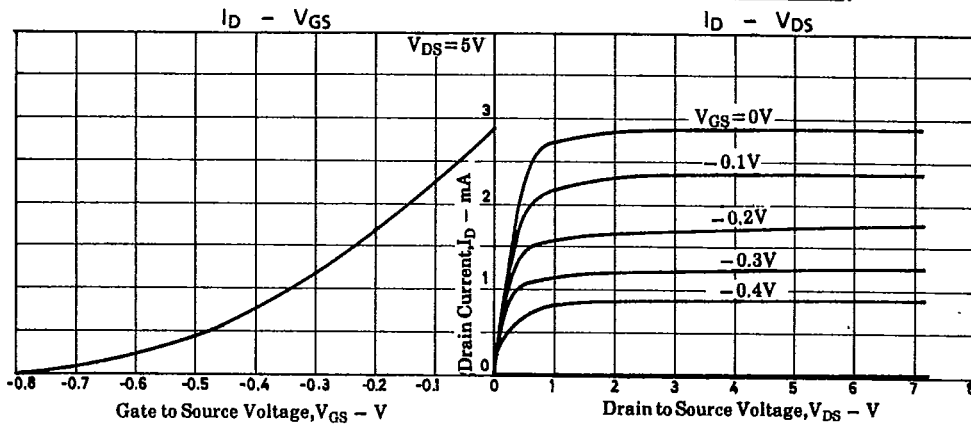


Case Outline 2057 (unit: mm)



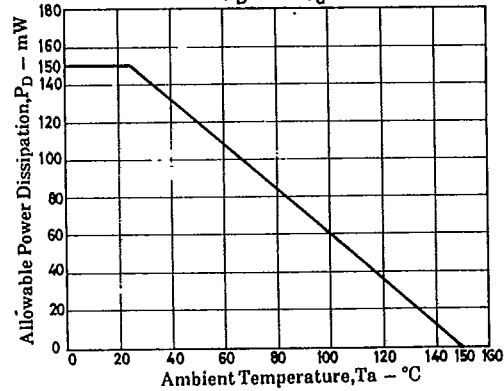
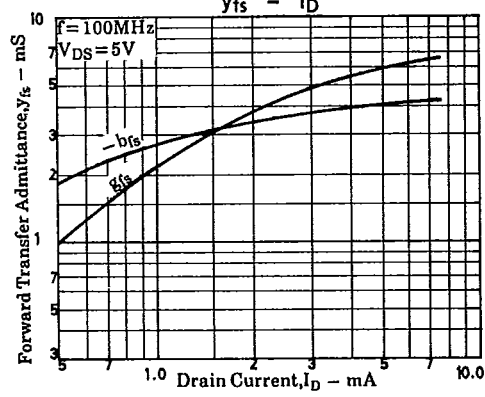
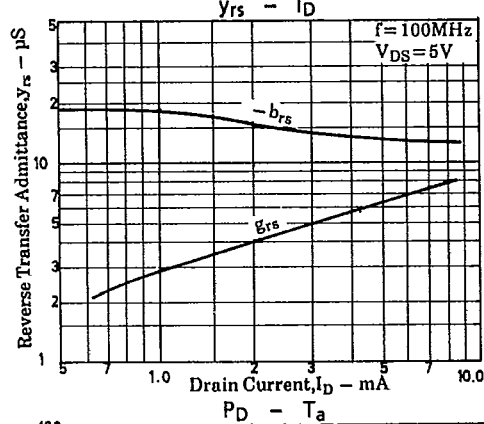
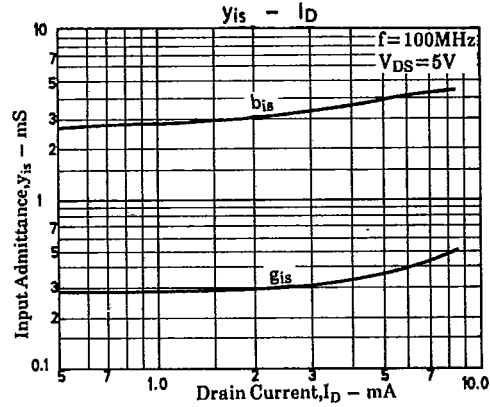
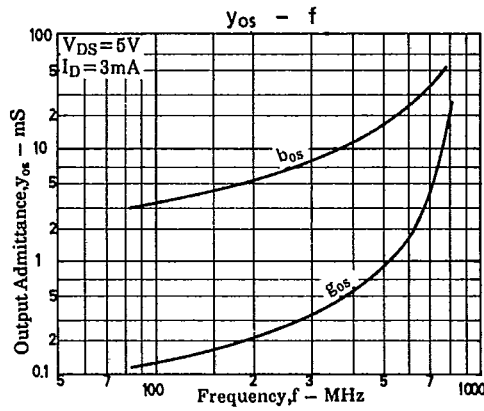
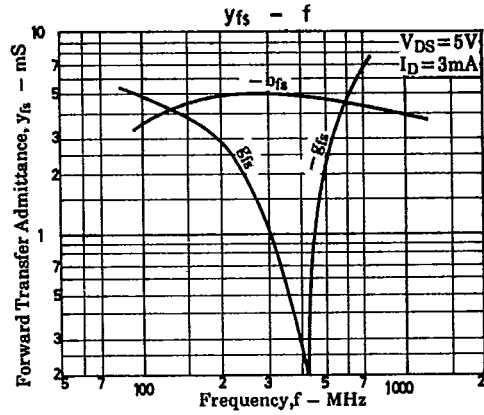
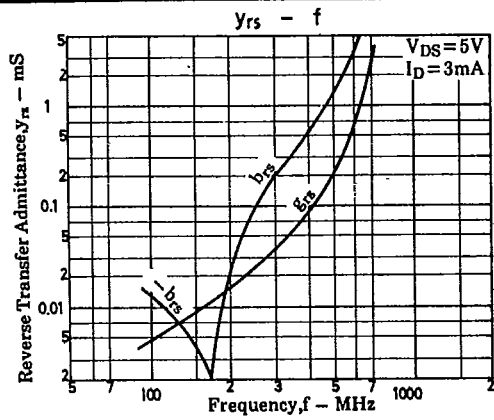
2SK1065

T-31-25



2SK1065

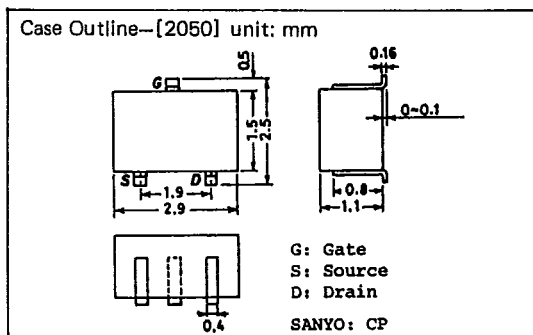
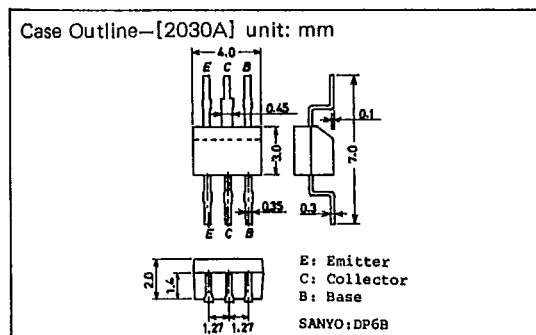
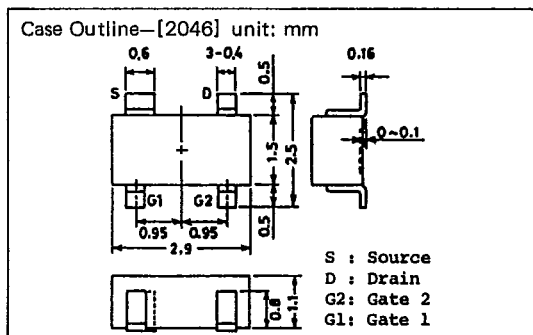
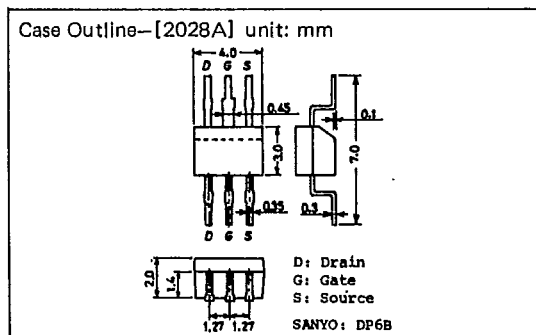
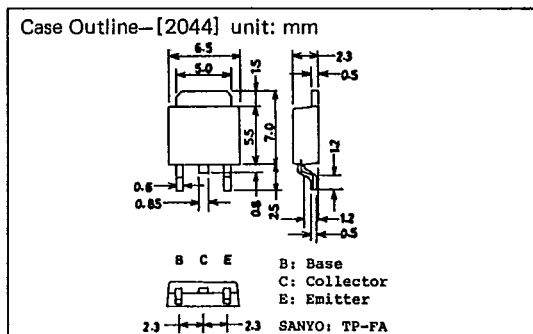
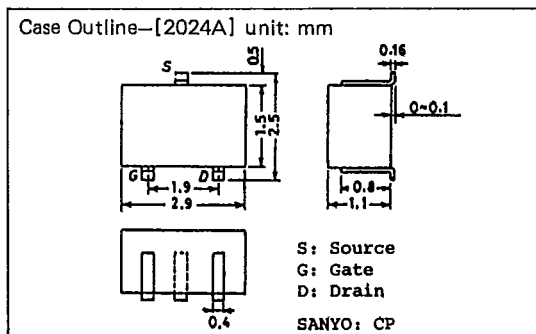
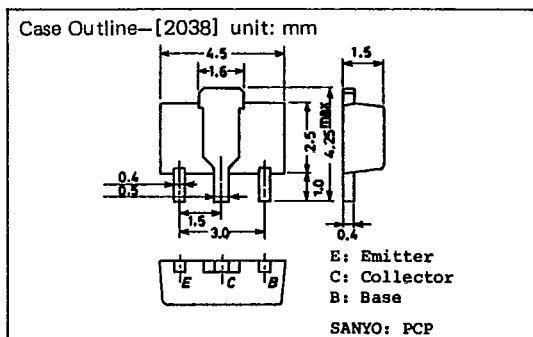
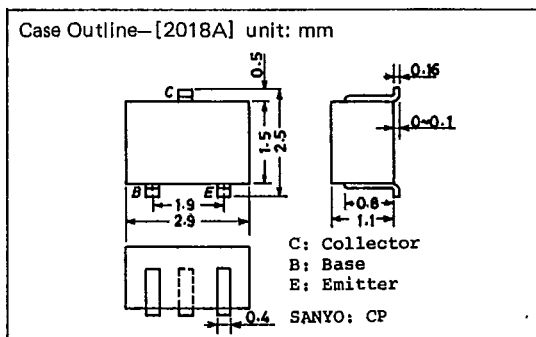
T-31-25



T-91-20

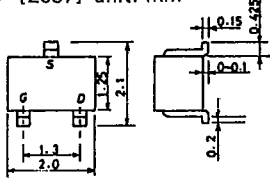
CASE OUTLINES OF SURFACE MOUNT TRANSISTORS

- All of Sanyo surface mount 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.



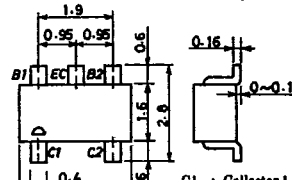
T-91-20

Case Outline—[2057] unit: mm



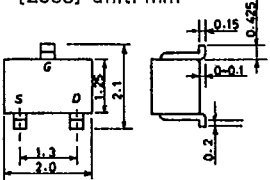
S: Source
G: Gate
D: Drain
SANYO: MCP

Case Outline—[2066] unit: mm



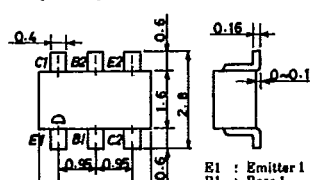
C1 : Collector 1
C2 : Collector 2
B2 : Base 2
EC : Emitter Common
B1 : Base 1
SANYO : CP6

Case Outline—[2058] unit: mm



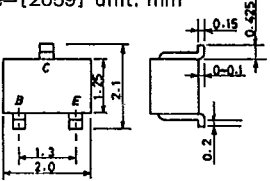
G: Gate
S: Source
D: Drain
SANYO: MCP

Case Outline—[2067] unit: mm



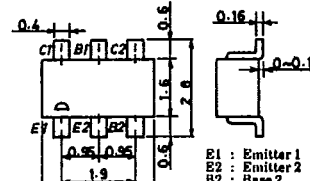
E1 : Emitter 1
B1 : Base 1
C2 : Collector 2
E2 : Emitter 2
B2 : Base 2
C1 : Collector 1
SANYO : CP6

Case Outline—[2059] unit: mm



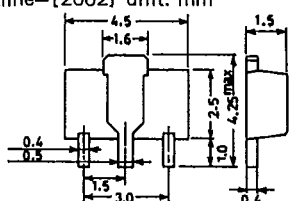
B: Base
C: Collector
E: Emitter
SANYO: MCP

Case Outline—[2068] unit: mm



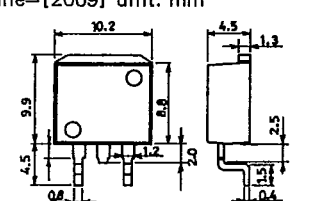
B1 : Emitter 1
E2 : Emitter 2
B2 : Base 2
C2 : Collector 2
B1 : Base 1
C1 : Collector 1
SANYO : CP6

Case Outline—[2062] unit: mm



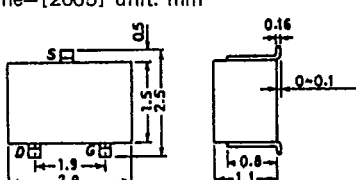
S: Source
D: Drain
G: Gate
SANYO: PCP

Case Outline—[2069] unit: mm



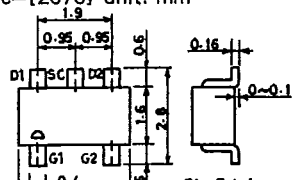
B: Base
C: Collector
E: Emitter
SANYO: SMP

Case Outline—[2065] unit: mm



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

Case Outline—[2070] unit: mm



G1 : Gate 1
G2 : Gate 2
D2 : Drain 2
SC : Source Common
D1 : Drain 1
SANYO : CP6

T-9120

