

Specification Tentative	Products MOSFET	Type 2SK2104
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1. TYPE. 2SK2104
2. DESCRIPTION. Silicon N-Channel MOS FET.
3. APPLICATION. Switching.
4. ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Item	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Gate-Source Voltage	V_{GSS}	± 20	V
Drain Current	I_D	5	A
Power Dissipation	P_D	10	W
Channel Temperature	T_{ch}	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-55 \sim 150$	$^\circ\text{C}$

5. ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Gate-Source Leak Current	I_{GSS}	$V_{GS} = \pm 20\text{V}, V_{DS} = 0\text{V}$	—	—	± 100	nA
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 1\text{mA}, V_{GS} = 0\text{V}$	60	—	—	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 60\text{V}, V_{GS} = 0\text{V}$	—	—	10	μA
Gate Threshold Voltage	$V_{GS(off)}$	$I_D = 1\text{mA}, V_{DS} = 10\text{V}$	1.0	—	2.5	V
Forward Transfer Admittance	$ Y_{fs} $	$I_D = 3.0\text{A}, V_{DS} = 10\text{V}$	5.0	—	—	S
Static Drain-to-Source On-State Resistance	$R_{DS(ON)}$	$I_D = 3.0\text{A}, V_{GS} = 10\text{V}$	—	—	0.25	Ω
Input Capacitance	C_{iss}	$V_{DS} = 10\text{V}$	—	900	—	pF
Output Capacitance	C_{oss}	$V_{GS} = 0\text{V}$	—	350	—	pF
Reverse Transfer Capacitance	C_{rss}	$f = 1\text{MHz}$	—	100	—	pF
Turn-On Delay Time	$t_{d(on)}$	$I_D = 3.0\text{A}, V_{DD} \approx 30\text{V}$	—	10	—	ns
Rise Time	t_r	$R_L = 10\Omega$	—	40	—	ns
Turn-Off Delay Time	$t_{d(off)}$	$V_{GS} = 10\text{V}$	—	110	—	ns
Fall Time	t_f	$R_{in} = 10\Omega$	—	30	—	ns

ROHM CO., LTD.

Design <i>T. Konishi</i>	Approval	Specification No. TAK2104-1	Date Jan. 12/93
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Specification

Products

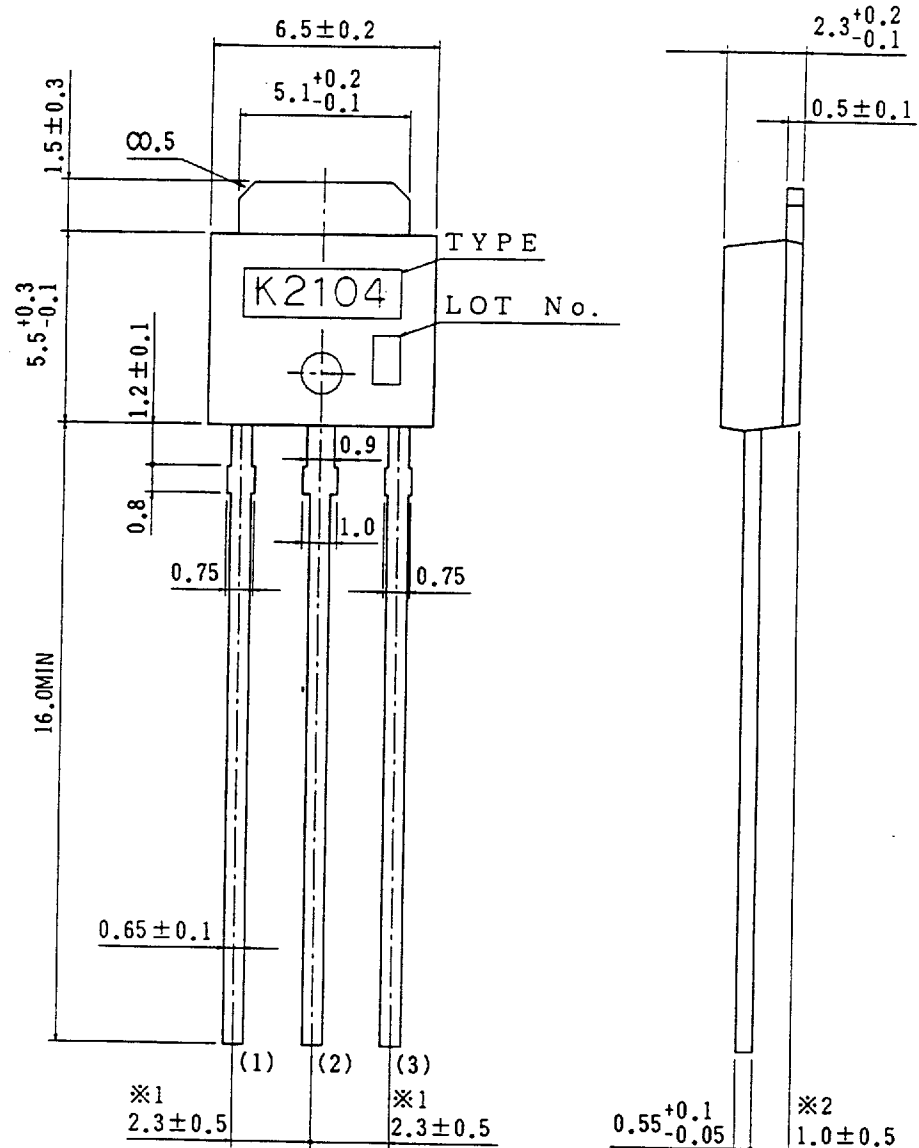
CPT

Type

2SK2104

Figure 1.

FD:fig-8340



UNIT : mm

- (1) Gate
- (2) Drain
- (3) Source

※ Minimum order quantity for Bulk Packing : 1,000PCS/INNER CASE

Two kind of marking are available

- Direct Laser Marking
- Laser Marking on silver color undercoated surface

A factory

APOLLO ELECTRONICS CO.,LTD.

883 Kamikitajima, Chikugo, Fukuoka 833, Japan

The net weight

430mg / pce

ROHM CO., LTD.

Date

Jan 12 93