

SANYO	No.2748	2SK1068
	N-Channel Junction Silicon FET Impedance Conversion Applications	

Applications

- Impedance conversion
- Infrared sensor

Features

- Small I_{GSS}
- Small C_{RSS}
- Very small-sized package permitting 2SK1068-applied sets to be made smaller and slimmer

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

			unit
Drain to Source Voltage	V_{DSX}	40	V
Gate to Drain Voltage	V_{GDS}	-40	V
Gate Current	I_G	10	mA
Drain Current	I_D	1	mA
Allowable Power Dissipation	P_D	100	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	$V_{(BR)GDS}$	$I_G = -10\mu\text{A}, V_{DS} = 0$	-40			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20\text{V}, V_{DS} = 0$			-500	pA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10\text{V}, I_D = 1\mu\text{A}$	-0.4	-1.5	-4.0	V
Drain Current	I_{DSS}	$V_{DS} = 10\text{V}, V_{GS} = 0$	※30		※300	μA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{kHz}$	0.05	0.13		mS
Input Capacitance	C_{iss}	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		1.7		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		0.7		pF

※: The 2SK1068 is classified by I_{DSS} as follows (unit: μA):

30	10	80	60	11	180	150	12	300
----	----	----	----	----	-----	-----	----	-----

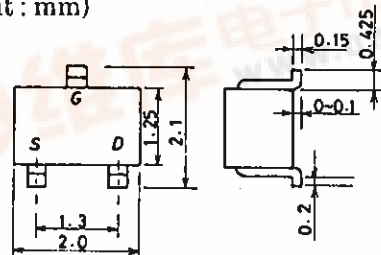
(Note) Marking: B

I_{DSS} rank: 10,11,12

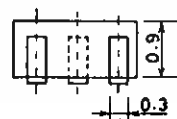
●For CP package version, use the 2SK545.

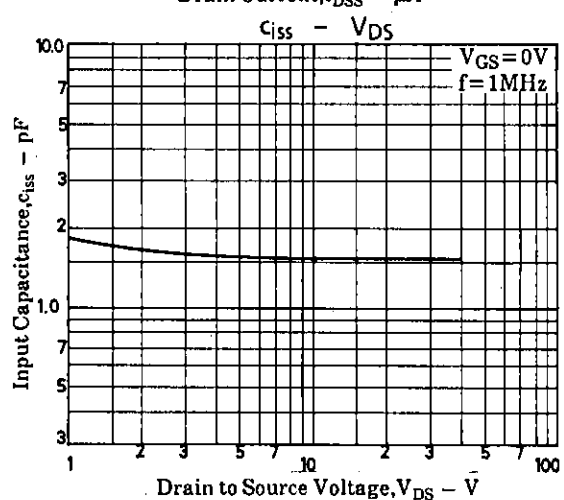
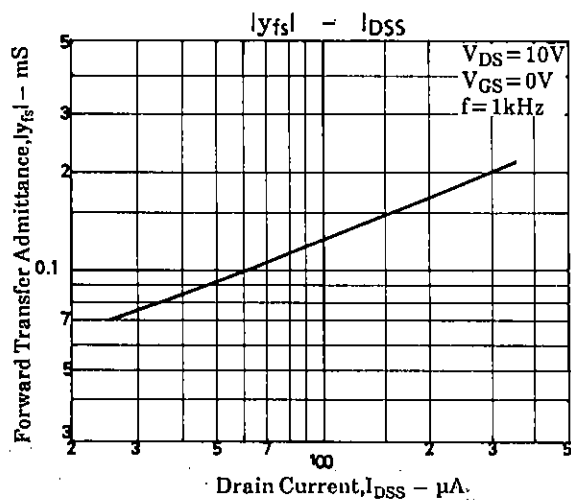
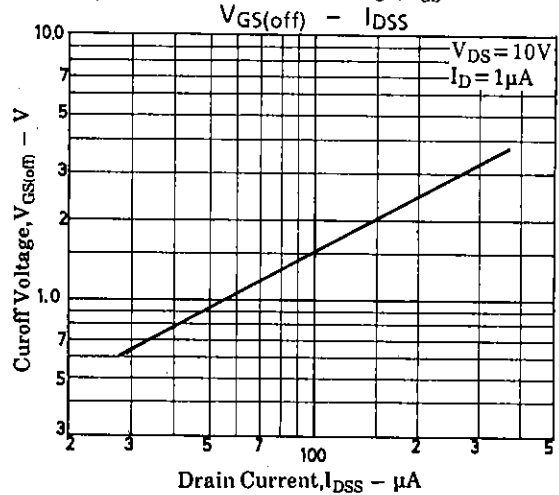
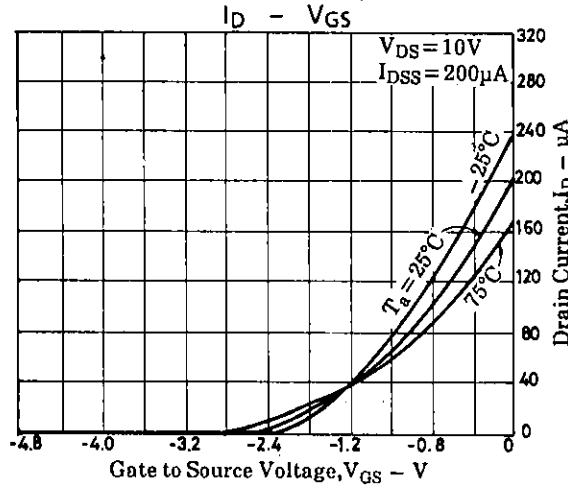
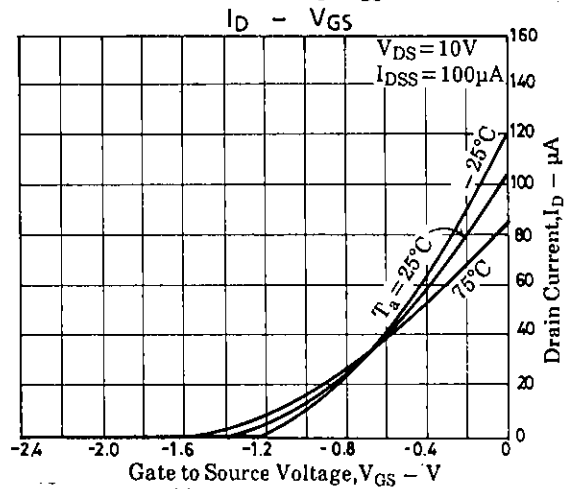
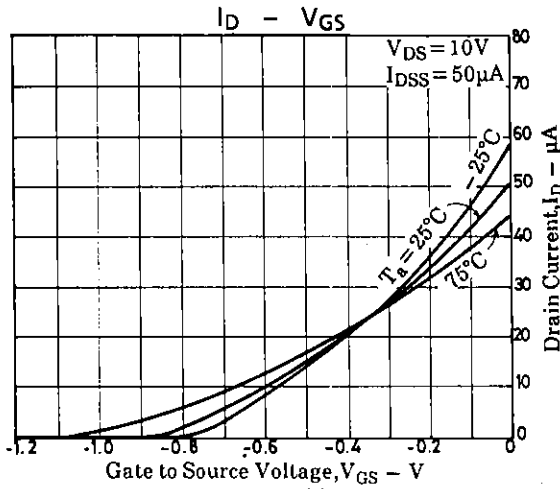
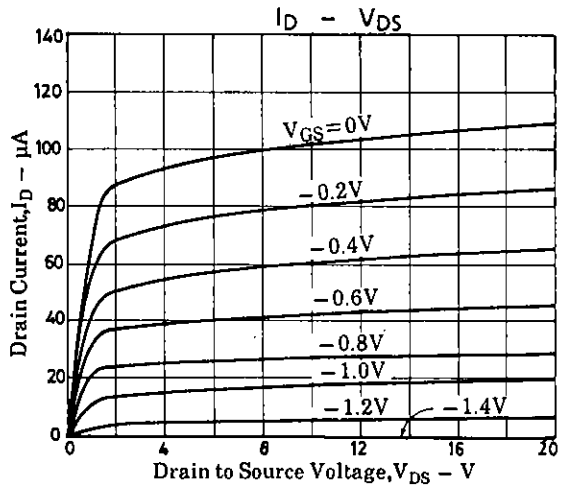
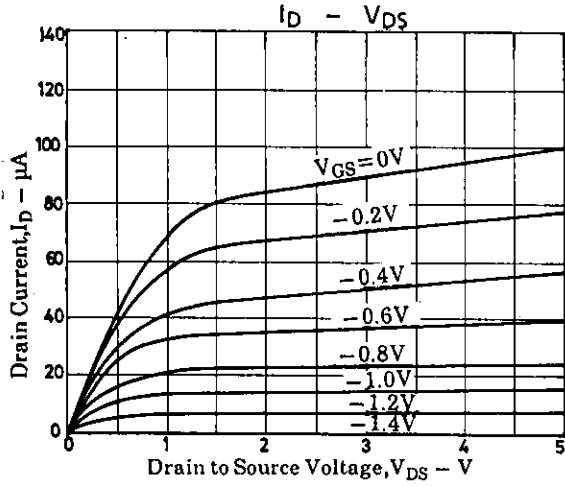
Package Dimensions 2058

(unit: mm)

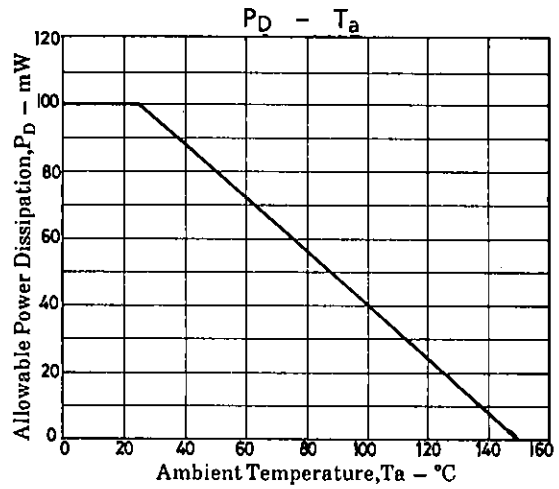
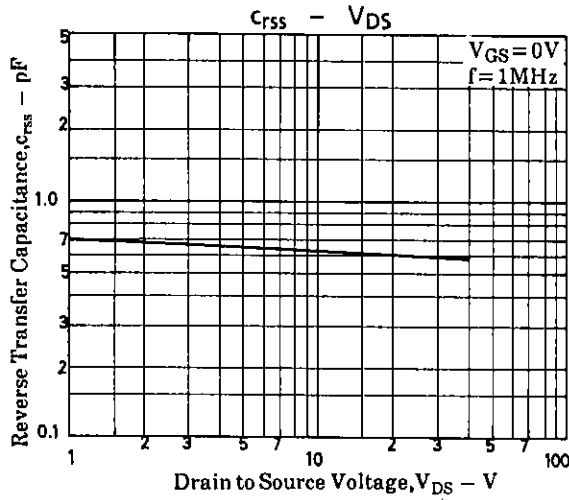


G: Gate
S: Source
D: Drain
SANYO: MCP





2SK1068



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnity and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use.
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.