

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
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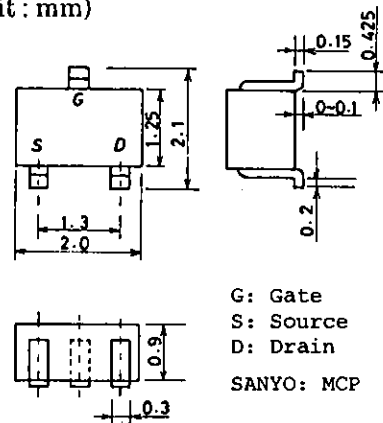
(Note) Marking : B

I_{DSS} rank : 10,11,12

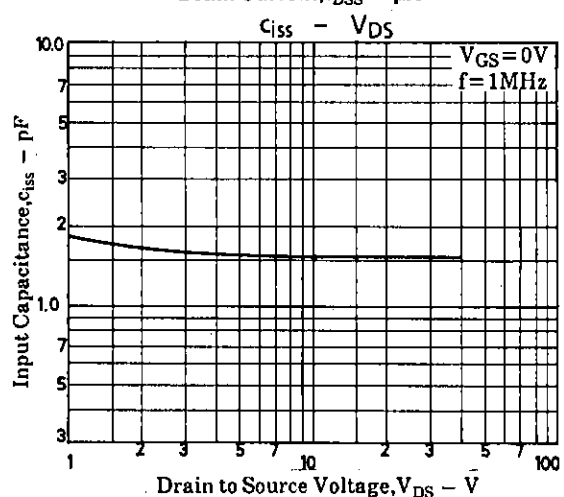
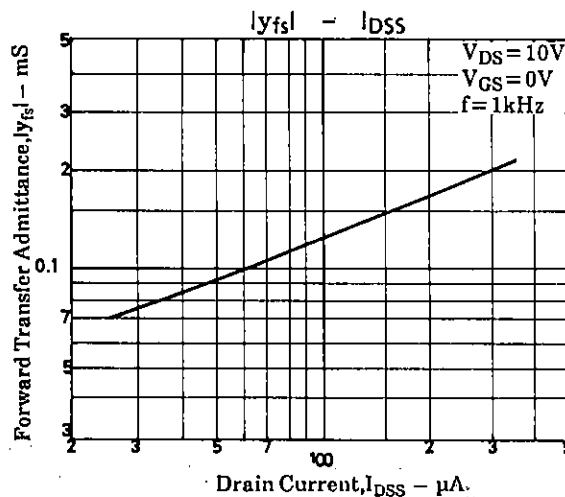
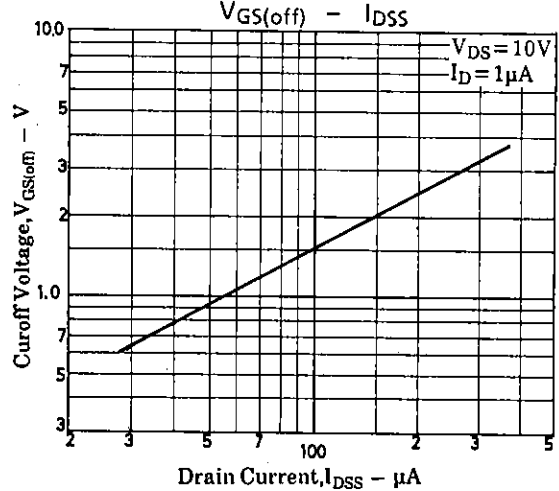
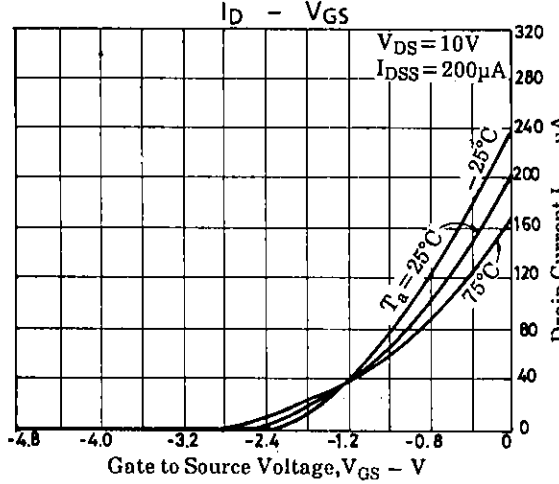
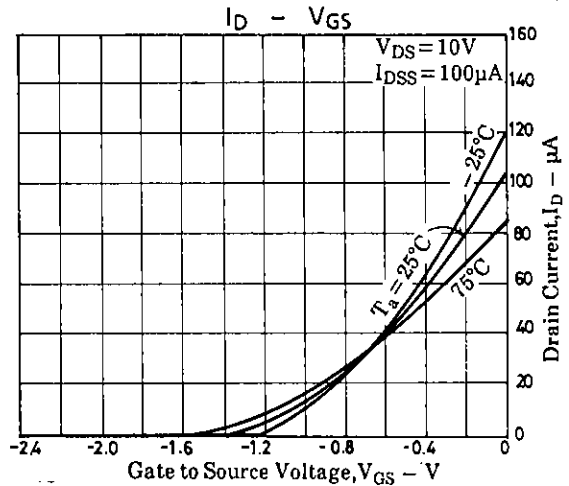
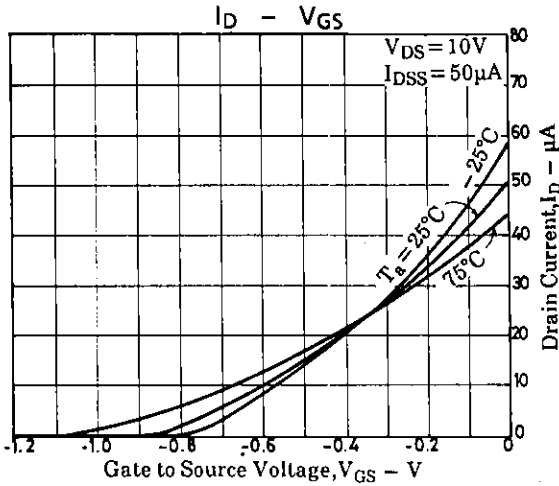
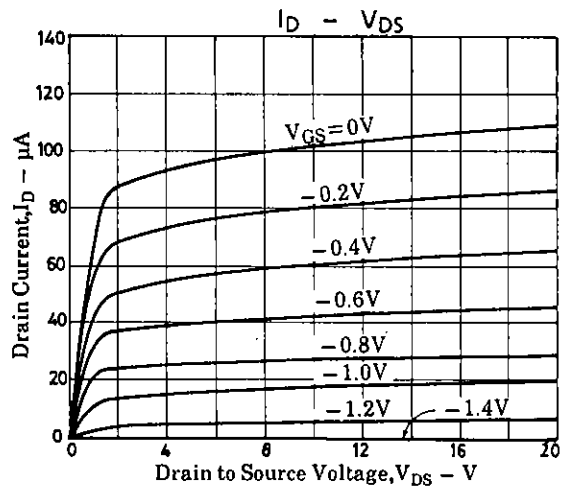
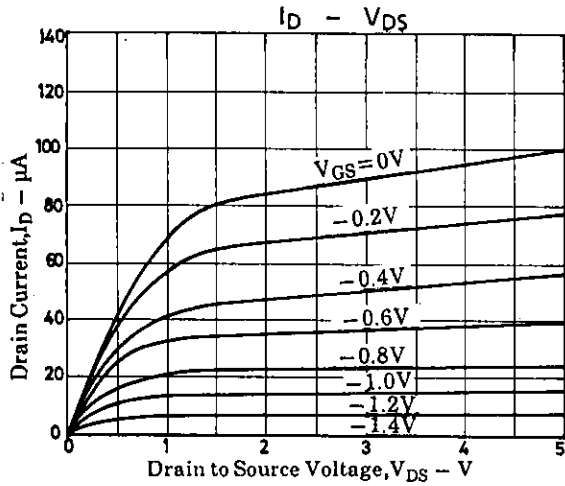
●For CP package version, use the 2SK545.

Package Dimensions 2058

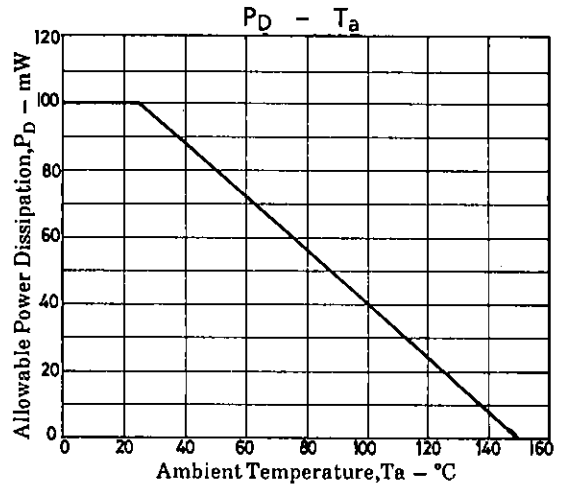
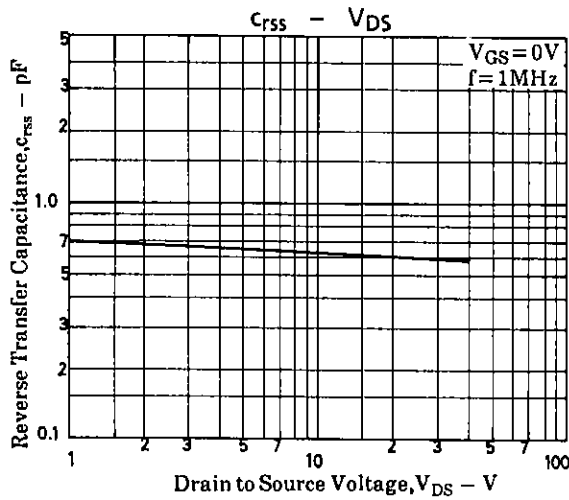
(unit : mm)



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



2SK1068



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