

2SK669

Very High-Speed Switch, Analog Switch Applications

Applications

· Analog switches, low-pass filters, Ultrahigh-speed switches.

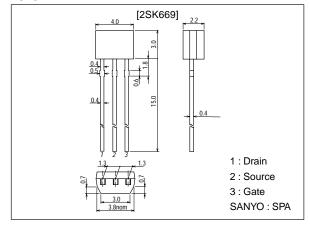
Features

- · Large $|y_{fs}|$.
- · Enhancemet type.
- · Small ON resistance.

Package Dimensions

unit:mm

2040A



Specifications

Absolute Maximum Ratings at Ta = 25°C

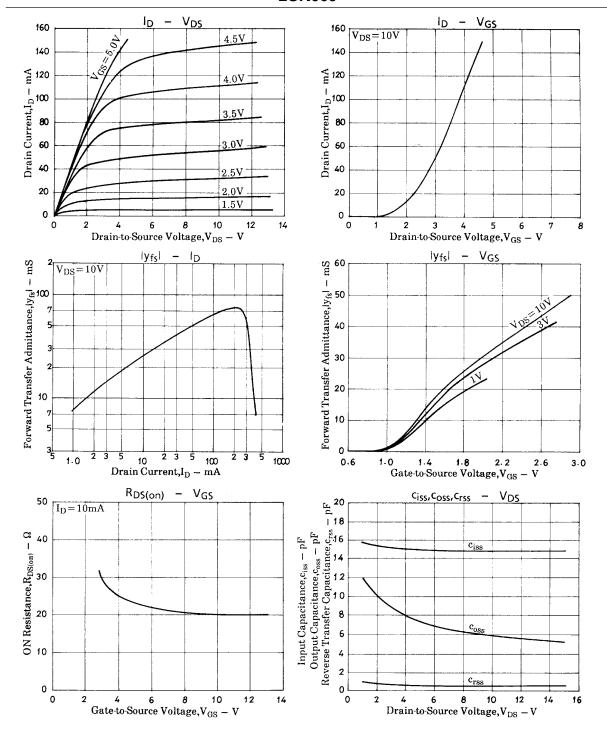
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DS}		50	V
Gate-to-Source Voltage	V _{GS}		±12	V
Drain Current	I _D		100	mA
Drain Current(Pulse)	I _{DP}		300	mA
Allowable Power Dissipation	PD		200	mW
Channel Temperature	Tch		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Voltage	V _{(BR)DS}	$I_D=10\mu A, V_{GS}=0$	50			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =10V, V _{DS} =0		0.01	10	nA
Zero-Gate Voltage Drain Current	I _{DSS} *	V_{DS} =20V, V_{GS} =0V			1.0	μΑ
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =100μA	0.3	0.9	1.5	V
Forward Transfer Admittance	yfs	V_{DS} =10V, I_D =50mA, f=1kHz	25	40		mS
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz		15		pF
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0, f=1MHz		6		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0, f=1MHz		0.5		pF
Drain-to-Source ON Resistance	R _{DS(on)}	V _{DS} =10V, I _D =10mA		20		Ω

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SANYO Electric Co.,Ltd. Semiconductor Company
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN



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