

FX601

P-Channel Silicon MOSFET

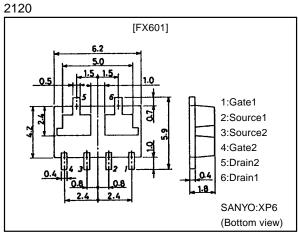
Ultrahigh-Speed Switching Applications

Features

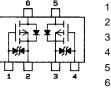
- Composite type composed of tow low ON-resistance P-channel MOSFET chips for ultrahigh-speed switching and low-voltage drive.
- · Facilitates high-density mounting.
- \cdot Tth FX601 is formed with two chips, each being
- equivalent to the 2SJ316, placed in one package.
- \cdot Matched pair characteristics.

Package Dimensions

unit:mm



Electrical Connection



1:Gate1 2:Source1 3:Source2 4:Gate2 5:Drain2 6:Drain1

(Top view)

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		-12	V
Gate-to-Source Voltage	VGSS		±12	V
Drain Current (DC)	۱ _D		-1	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	-4	А
Allowable Power Dissipation	PD	Tc=25°C, 1unit	6	W
	PD	Mounted on ceramic board (750mm ² ×0.8mm) 1unit	1.5	W
Total Dissipation	PT	Mounted on ceramic board (750mm ² ×0.8mm)	2	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

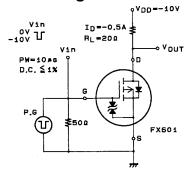
· Marking:601

Continued on next page.



52098HA (KT)/71095MO(KOTO) TA-0107 No.4884-1/4

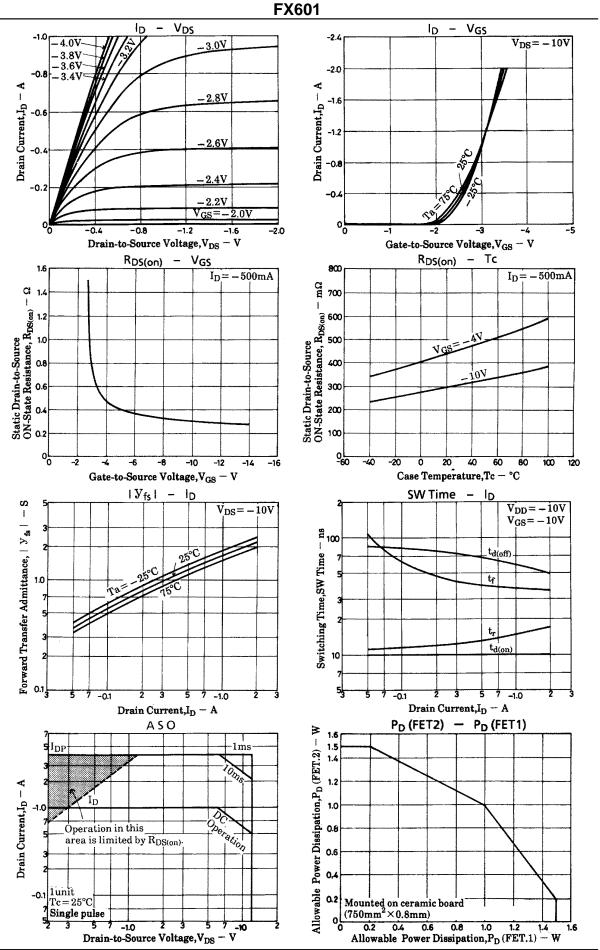
Switching Time Test Clrcuit

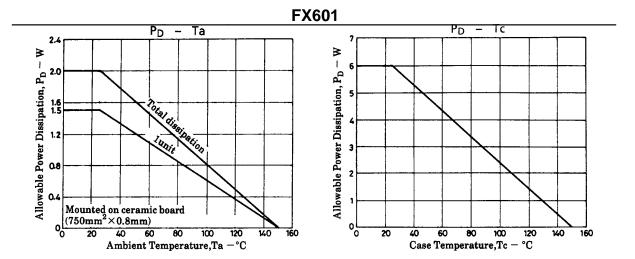


Continued from preceding page.

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
D-S Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0	-12			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-12V, V _{GS} =0			-100	μA
Gate-to-Source Leakage Current	IGSS	V _{GS} =±12, V _{DS} =0			±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =-10V, I _D =-1mA	-1.0		-2.0	V
Forward Transfer Admittance	Y _{fs}	V _{DS} =-10V, I _D =-500mA	0.7	1.2		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =-500mA, V _{GS} =-10V		0.3	0.42	Ω
	R _{DS(on)}	I _D =-500mA, V _{GS} =-4V		0.45	0.63	Ω
Input Capacitance	Ciss	V _{DS} =-10V, f=1MHz		170		pF
Output Capacitance	Coss	V _{DS} =-10V, f=1MHz		170		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-10V, f=1MHz		40		pF
Turn-ON Delay Time	^t d(on)	See Specified Test Circuit		10		ns
Rise Time	tr	See Specified Test Circuit		14		ns
Turn-OFF Delay Time	td(off)	See Specified Test Circuit		70		ns
Fall Time	t _f	See Specified Test Circuit		40		ns
Diode Forward Voltage	V _{SD}	I _S =-1A, V _{GS} =0		-0.9		V





■ 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:

Accept full responsibility and indemnify 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.

This catalog provides information as of May, 1998. Specifications and information herein are subject to change without notice.