

FX606

N-Channel Silicon MOSFET

Ultrahigh-Speed Switching Applications

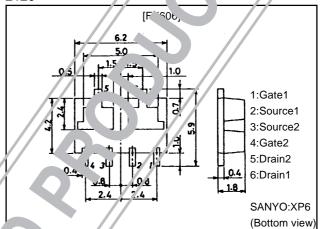
Features

- · Composite type composed of two low ON-resistance N-channel MOSFET chips for ultrahigh-speed switching and low-voltage drive.
- · Facilitates high-density mounting.
- The FX606 is formed with two chips, each being equivalent to the 2SK1470, placed in one package.
- · Matched pair characteristics.

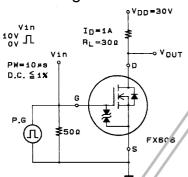
Package Dimensions

unit:mm

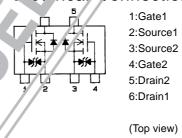
2120



Switching Time Test Circuit



Tec rical Connection



Specifications

Absolute Maximum Rating at T2 = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	Vrjss		60	V
Gate-to-Source Vr tage	V _{GSS}		±15	V
Drain Curren (F.C)	ID		2	А
Drain Current (Pulse)	I _{DP}	PW≤10µs, duty cycle≤1%	8	Α
Allowable Fower Di	PD	Tc=25°C, 1 unit	6	W
	PD	Mounted on ceramic board (750mm ² ×0.8mm) 1 unit	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

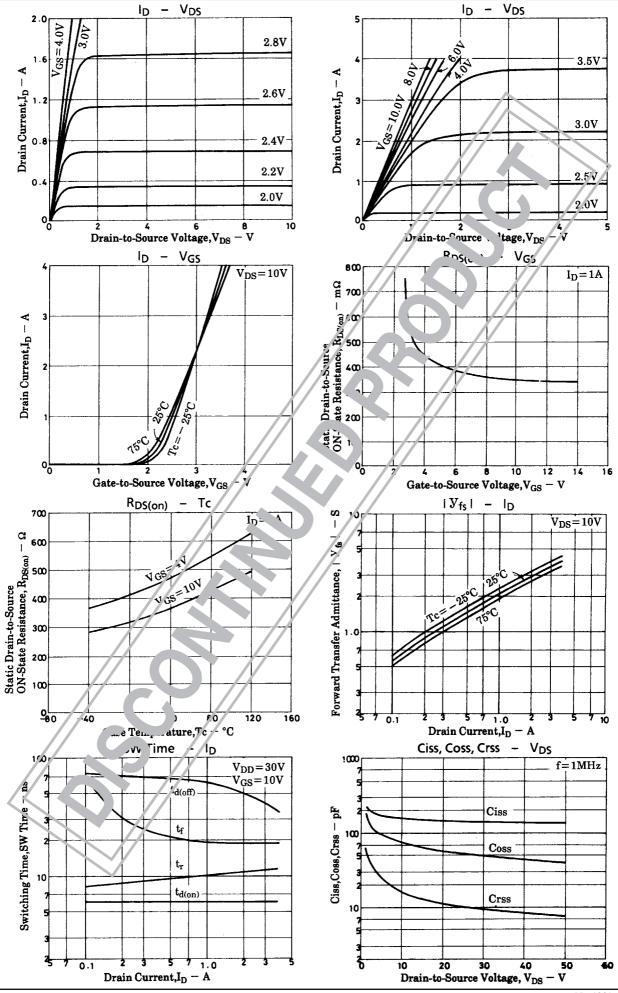
· Marking:606

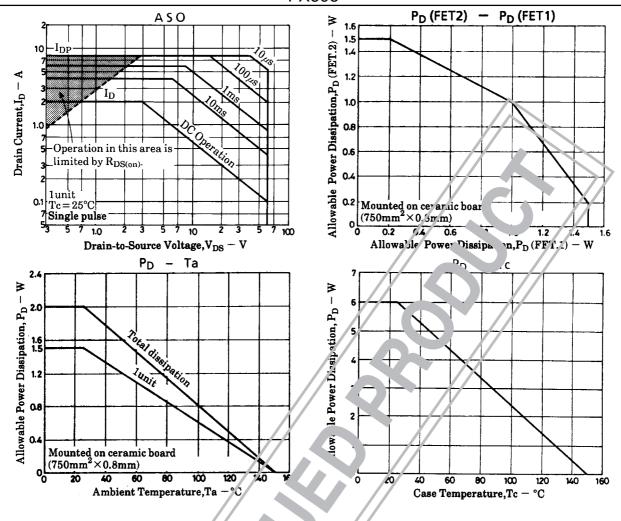
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Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
raiametei			min	typ	max	Offic
D-S Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0	50			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0			100	μΑ
Gate-to-Source Leakage Current	IGSS	$V_{GS}=\pm 12, V_{DS}=0$			±10	μΑ
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, ID=1mA	1.0		2.0	V
Forward Transfer Admittance	Yfs	V _{DS} =10V, I _D =1A	1	2.0		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =1A, V _{GS} =10V		ി.35	0.45	Ω
	R _{DS(on)}	I _D =1A, V _{GS} =4V		د0	0.6	Ω
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		150		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		60		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		12	7	pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit		6		ns
Rise Time	t _r	See specified Test Circuit		10		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit		60		ns
Fall Time	t _f	See specified Test Circuit		20		ns
Diode Forward Voltage	V _{SD}	I _S =1.2A, V _{GS} =0		1.0		V





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