Ordering number: ENN6384

P-Channel Silicon MOSFET





Ultrahigh-Speed Switching Applications

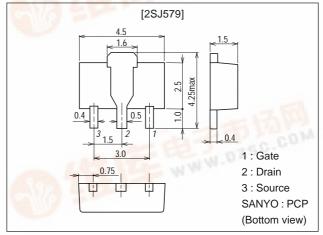
Features

- · Low ON resistance.
- · Ultrahigh-speed switching.
- · 4V drive.

WWW.DZSC.COM **Package Dimensions**

unit:mm

2062A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		-60	V
Gate-to-Source Voltage	V _{GSS}		±20	V
Drain Current (DC)	I _D	pal.	-1.2	Α
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	-4.8	Α
Allowable Power Dissipation	D-	Mounted on a ceramic board (250mm ² ×0.8mm)	1.5	W
	PD	Tc=25°C	3.5	W
Channel Temperature	Tch	199	150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0	-60			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0			-10	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0			±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =-10V, I _D =-1mA	-1.0	-11	-2.4	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-0.6A	0.9	1.2	97.	S
Static Drain-to-Source On-State Resistance	R _{DS(on)} 1	I _D =-0.6A, V _{GS} =-10V	W.W.	620	800	mΩ
	R _{DS(on)} 2	I _D =-0.4mA, V _G S=-4V		800	1150	mΩ

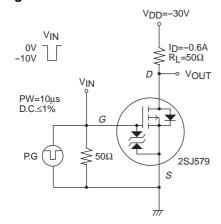
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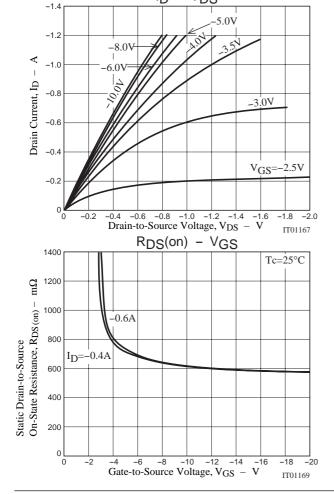
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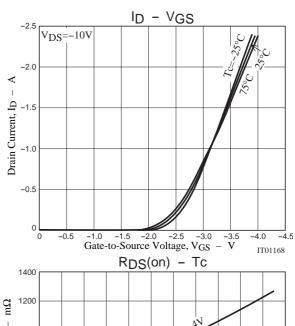
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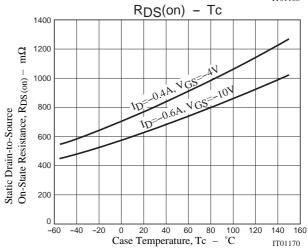
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Input Capacitance	Ciss	V _{DS} =–20V, f=1MHz		130		pF
Output Capacitance	Coss	V _{DS} =–20V, f=1MHz		35		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-20V, f=1MHz		9		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		8		ns
Rise Time	t _r	See specified Test Circuit		7		ns
Turn-OFF Delay Time	t _{d(off)}	See specified Test Circuit		22		ns
Fall Time	t _f	See specified Test Circuit		8		ns
Total Gate Charge	Qg	V _{DS} =-10V, V _{GS} =-10V, I _D =-1.2A		5		nC
Gate-to-Source Charge	Qgs	V _{DS} =-10V, V _{GS} =-10V, I _D =-1.2A		0.8		nC
Gate-to-Drain "Miller" Charge	Qgd	V _{DS} =-10V, V _{GS} =-10V, I _D =-1.2A		0.9		nC
Diode Forward Voltage	V _{SD}	I _S =-1.2A, V _{GS} =0		-0.82	-1.2	V

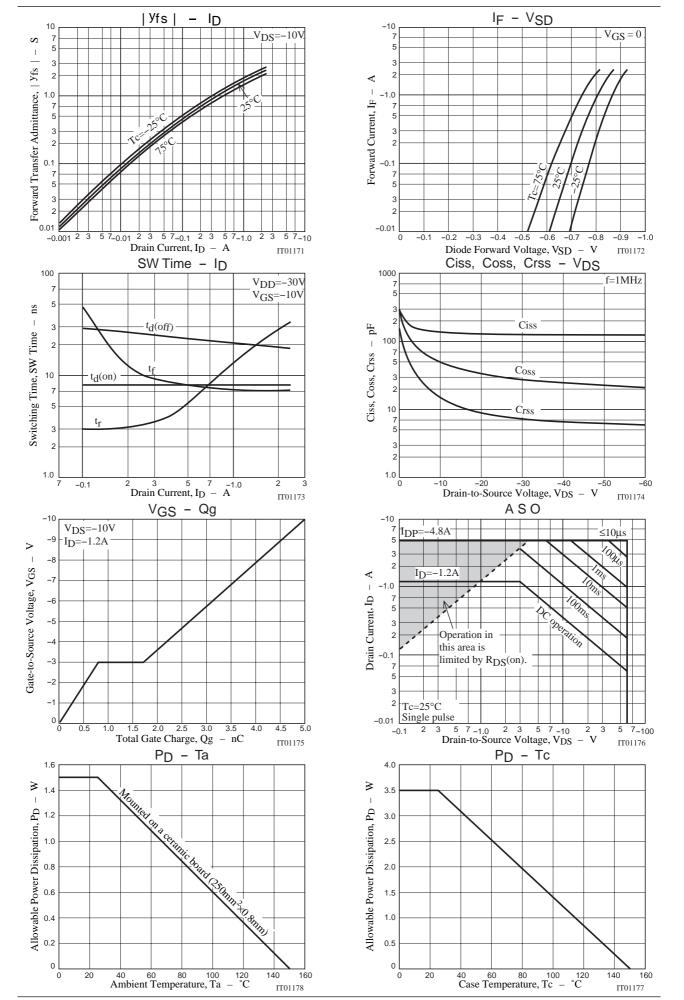
Switching Time Test Circuit











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