捷多邦,专业PCB打样工厂,24小时加急出货



N-Channel Silicon MOSFET

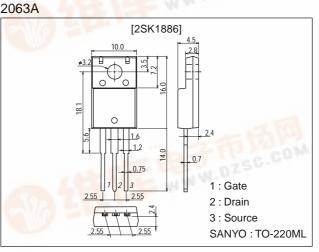
ANYO Ultrahigh-Speed Switching Applications

Features

- · Low ON resistance.
- · Ultrahigh-speed switching.
- · Low-voltage drive.
- · Micaless package facilitating mounting.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		30	V
Gate-to-Source Voltage	V _{GSS}		±15	V
Drain Current (DC)	ID		15	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	60	A
Allowable Power Dissipation	P-	and the second	2.0	W
	PD	Tc=25°C	25	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0	30			V
Gate-to-Source Breakdown Voltage	V(BR)GSS	I _G =±100µA, V _{DS} =0	±15		-	V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0			100	μA
Gate-to-Source Leakage Current	IGSS	V _{GS} =±12V, V _{DS} =0	10-		±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D = 1mA	1.0	107	2.0	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =9 A	7	11		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =9A, V _{GS} =10 <mark>V</mark>		40	55	mΩ
	R _{DS(on)}	ID=9A, VGS=4V		55	75	mΩ

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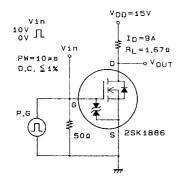
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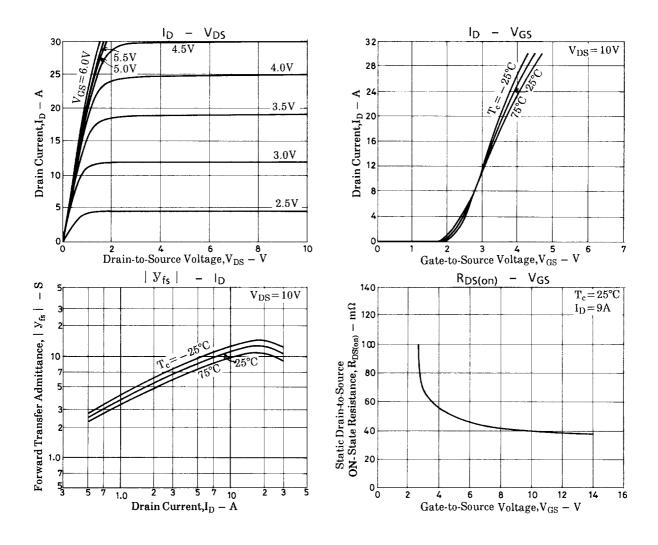
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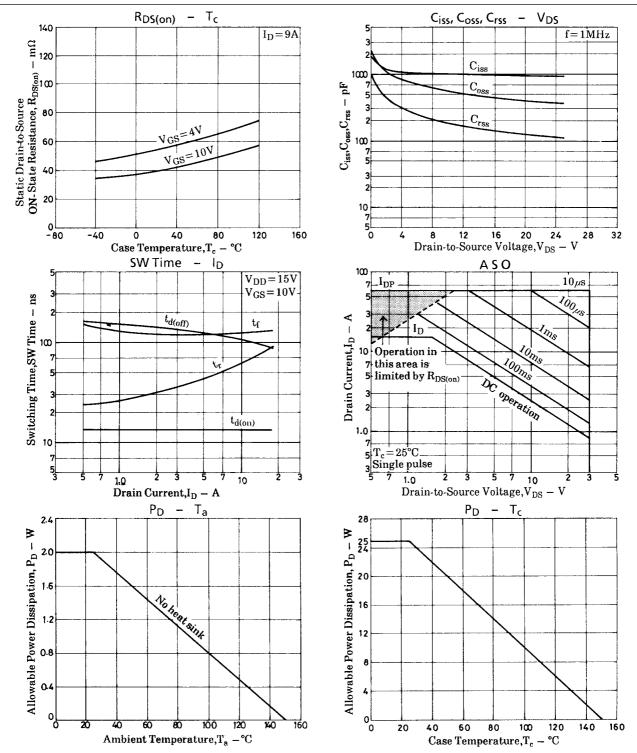
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		1000		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		550		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		180		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		13		ns
Rise Time	tr	See specified Test Circuit		60		ns
Turn-OFF Delay Time	^t d(off)	See specified Test Circuit		110		ns
Fall Time	tf	See specified Test Circuit		125		ns
Diode Forward Voltage	V _{SD}	I _S =15A, V _{GS} =0		1.0	1.5	V

Switching Time Test Circuit





2SK1886



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