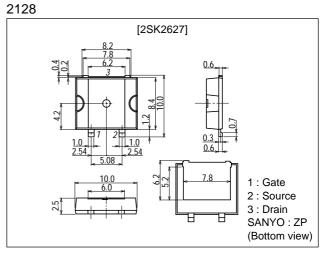


Features

- \cdot Low ON-resistance.
- \cdot Low Qg.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		600	V
Gate-to-Source Voltage	VGSS		±30	V
Drain Current (DC)	۱ _D		5	A
Drain Current (Pulse)	I _{DP}	PW≤10µs, duty cycle≤1%	20	A
Allowable Power Dissipation	PD	Tc=25°C	40	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

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

Parameter	Symbol	Conditions	Ratings			Unit		
			min	typ	max	Unit		
Drain-to-Source Breakdown Voltage	V _(BR) DSS	I _D =1mA, V _{GS} =0	600			V		
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =600V, V _{GS} =0			1.0	mA		
Gate-to-Source Leakage Current	IGSS	V _{GS} =±30V, V _{DS} =0			±100	nA		
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1mA	3.5		5.5	V		
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =2.5A	1.5	3.0		S		
Static Drain-to-Source On-State Resistance	R _{DS(on)}	I _D =2.5A, V _{GS} =15V		1.5	2.0	Ω		
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		700		pF		
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		220		pF		
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		110		pF		
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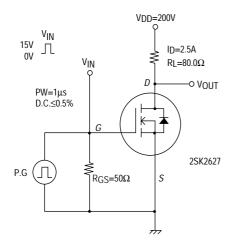
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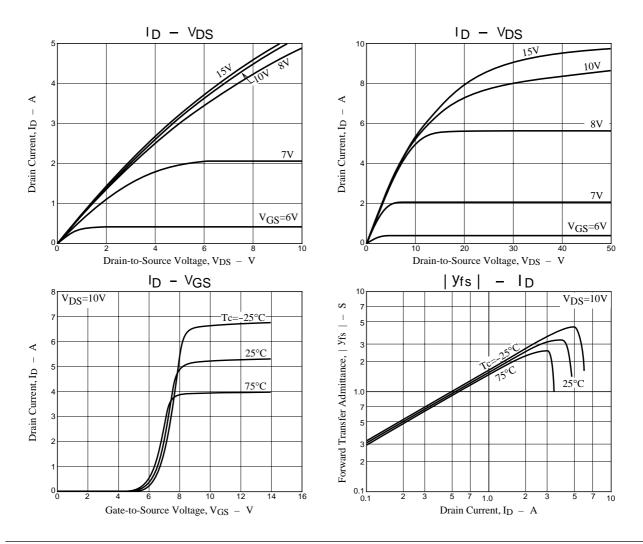
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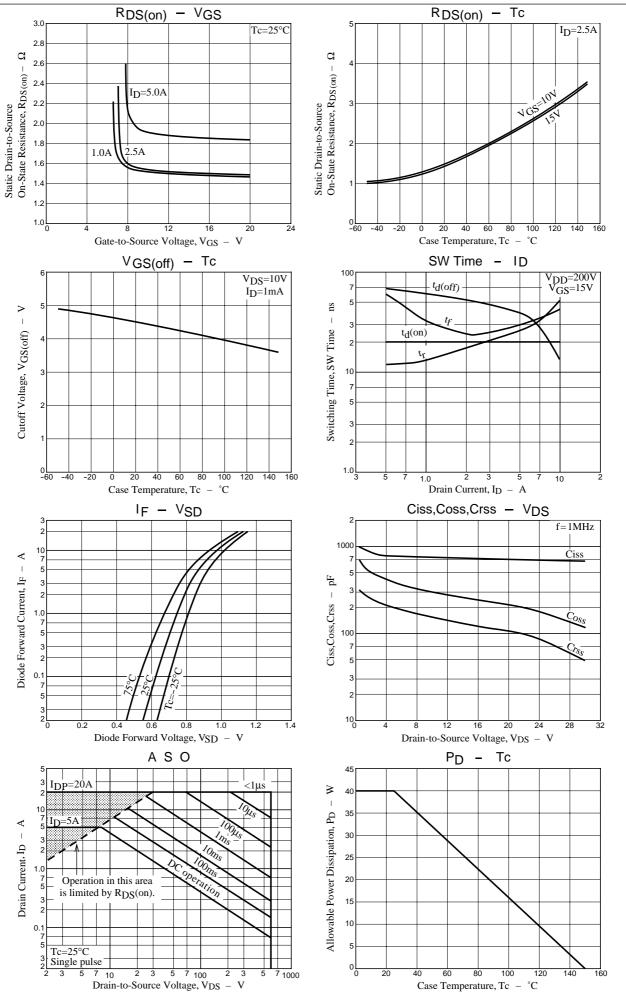
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Total Gate Charge	Qg	V _{DS} =200V, V _{GS} =10V, I _D =5A		20		nC
Turn-ON Delay Time	^t d(on)	See specified Test Circuit		20		ns
Rise Time	t _r	See specified Test Circuit		20		ns
Turn-OFF Delay Time	^t d(off)	See specified Test Circuit		50		ns
Fall Time	t _f	See specified Test Circuit		25		ns
Diode Forward Voltage	V _{SD}	I _S =5A, V _{GS} =0		0.87	1.2	V

Switching Time Test Circuit







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