

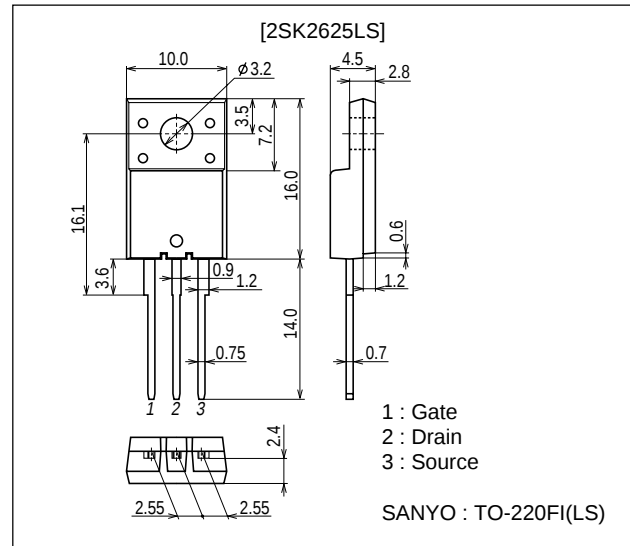
SANYO**2SK2625LS****Ultrahigh-Speed Switching Applications****Features**

- Low ON-resistance.
- Low Qg.

Package Dimensions

unit : mm

2078C

**Specifications****Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DS}		600	V
Gate-to-Source Voltage	V_{GS}		± 30	V
Drain Current (DC)	I_D		4	A
Drain Current (Pulse)	I_{DP}		16	A
Allowable Power Dissipation	P_D		2.0	W
		Tc=25°C	30	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	$V_{(BR)DSS}$	$I_D=1mA, V_{GS}=0$	600			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=600V, V_{GS}=0$			1.0	mA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 30V, V_{DS}=0$			± 100	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1mA$	3.5		5.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10V, I_D=2.5A$	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

Marking : K2625

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- Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.
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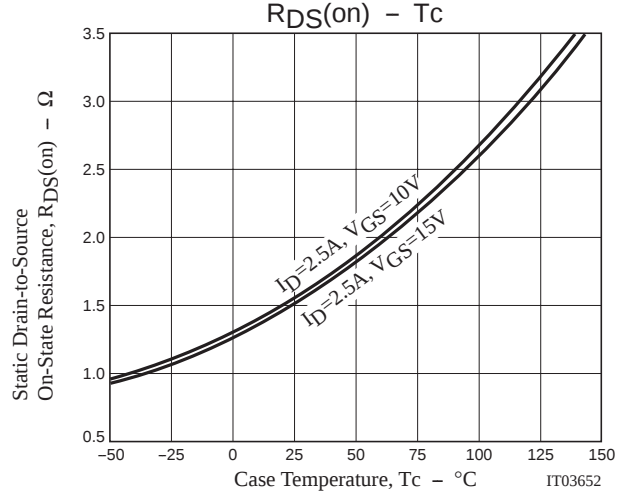
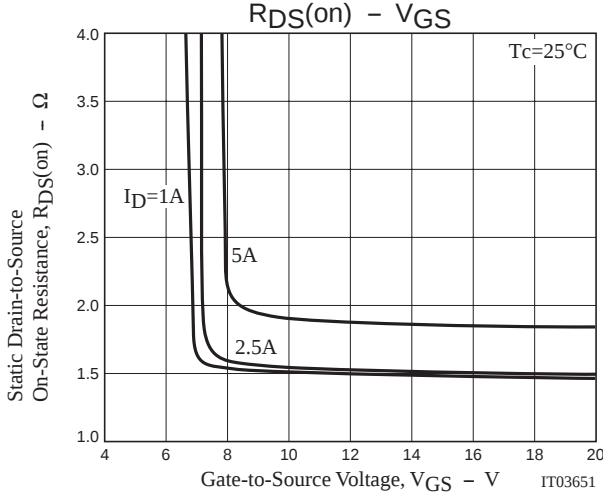
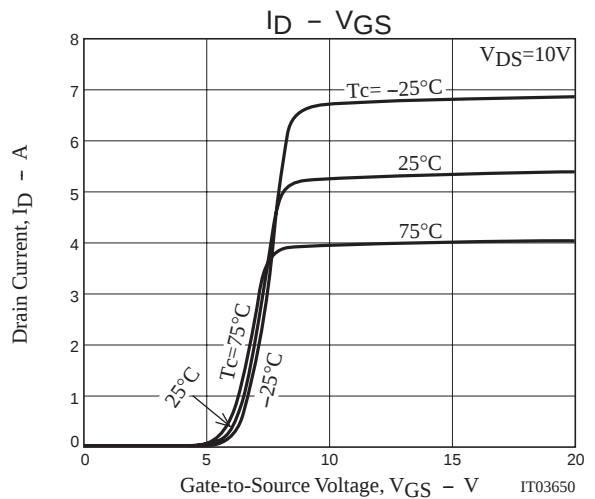
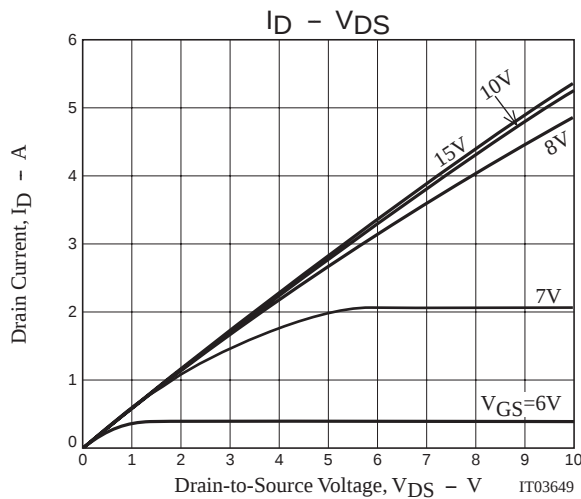
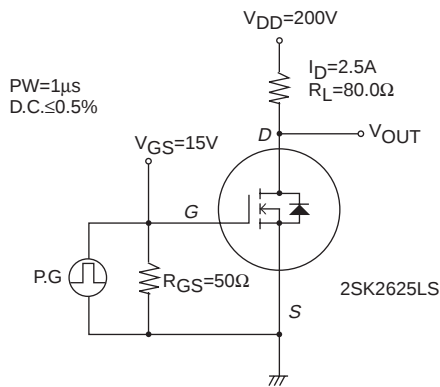
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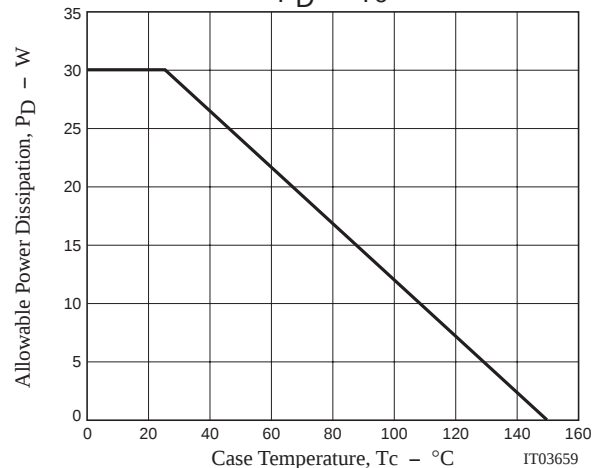
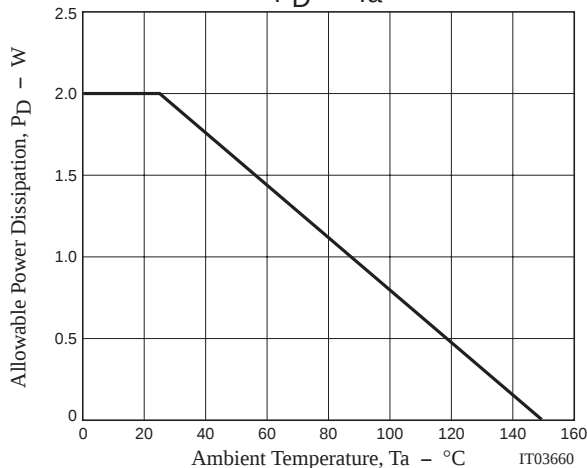
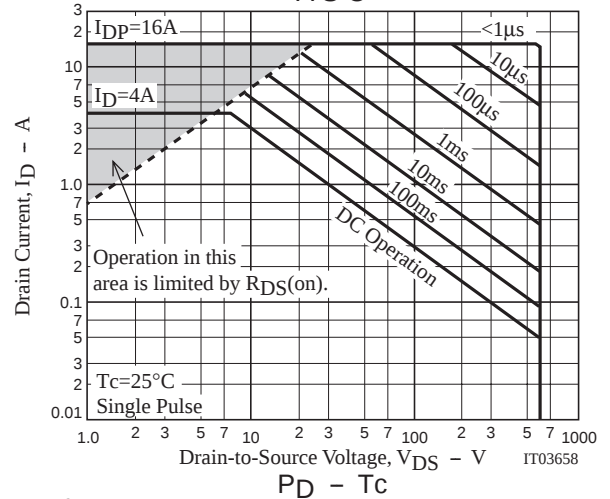
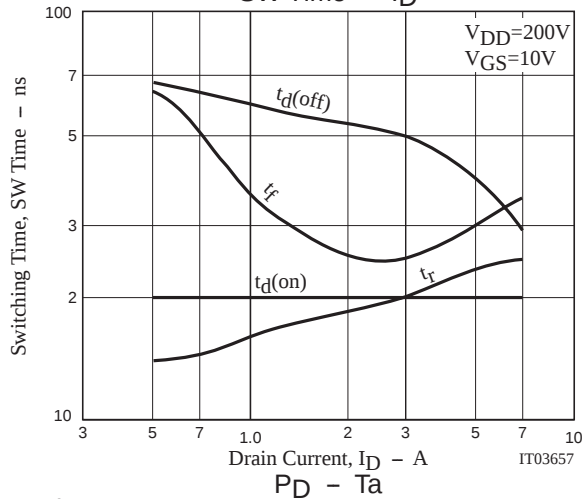
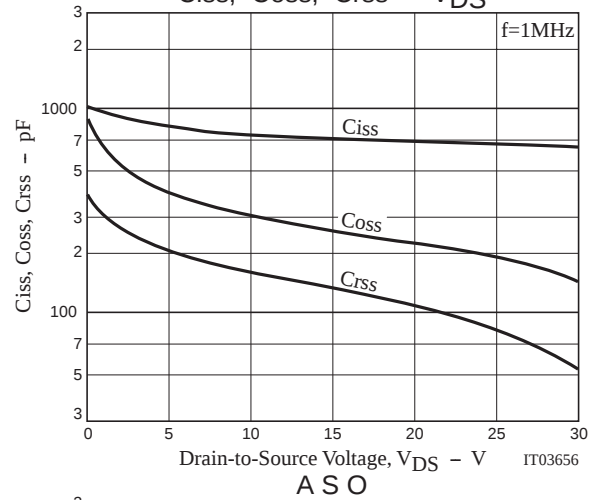
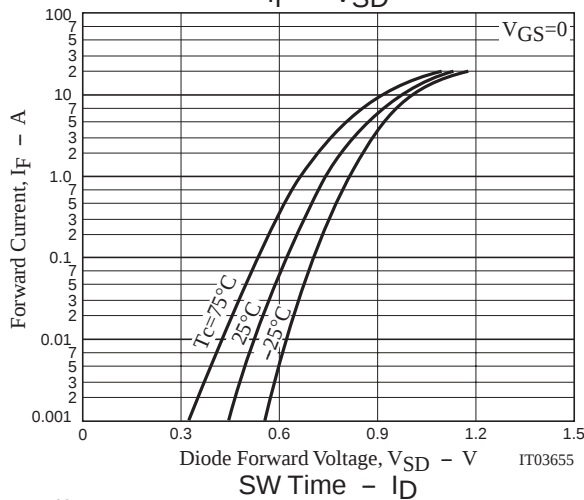
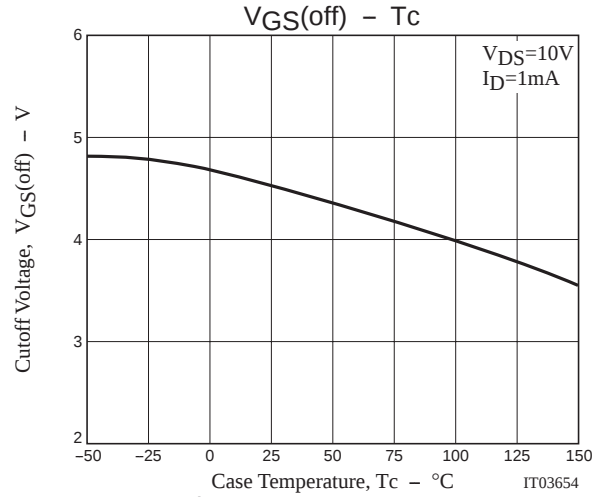
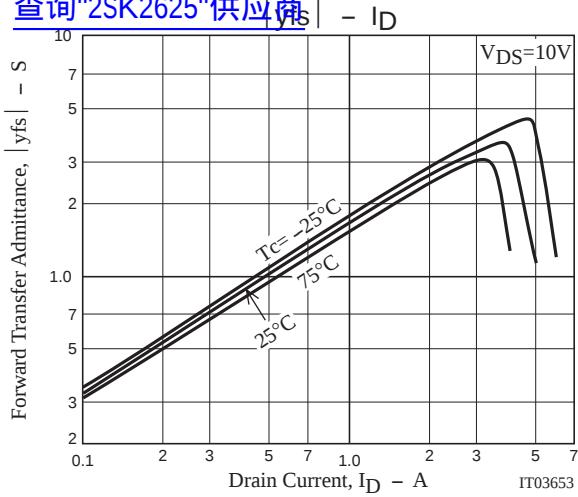
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		700		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		220		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		110		pF
Total Gate Charge	Qg	V _{DS} =200V, I _D =5A, V _{GS} =10V		20		nC
Turn-ON 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		0.88	1.2	V

Switching Time Test Circuit



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