

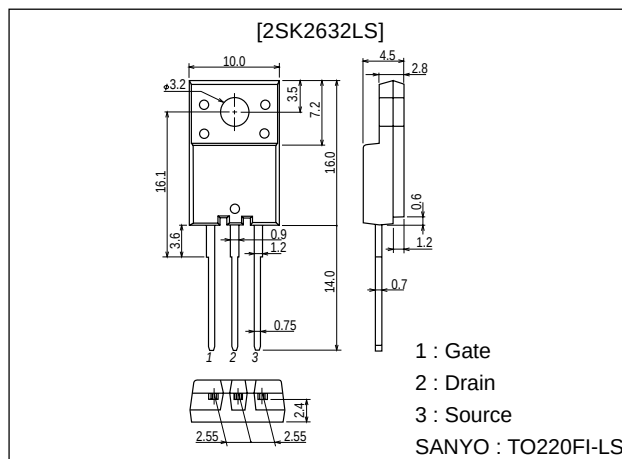
**2SK2632LS****Ultrahigh-Speed Switching Applications****Features**

- Low ON-resistance.
- Low Qg.

Package Dimensions

unit:mm

2078B

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

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSS}		800	V
Gate-to-Source Voltage	V_{GSS}		±30	V
Drain Current (DC)	I_D		2.5	A
Drain Current (Pulse)	I_{DP}		7.5	A
Allowable Power Dissipation	P_D	PW≤10μs, duty cycle≤1%	2.0	W
		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	$V_{(BR)DSS}$	$I_D=1mA, V_{GS}=0$	800			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=800V, V_{GS}=0$			1.0	mA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=±30V, V_{DS}=0$			±100	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1mA$	3.5		5.5	V
Forward Transfer Admittance	yfs	$V_{DS}=10V, I_D=1.3A$	0.7	1.4		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)}$	$V_{GS}=15V, I_D=1.3A$		3.6	4.8	Ω
Input Capacitance	Ciss	$V_{DS}=20V, f=1MHz$		550		pF
Output Capacitance	Coss	$V_{DS}=20V, f=1MHz$		150		pF
Reverse Transfer Capacitance	Crss	$V_{DS}=20V, f=1MHz$		70		pF

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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.

■ SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

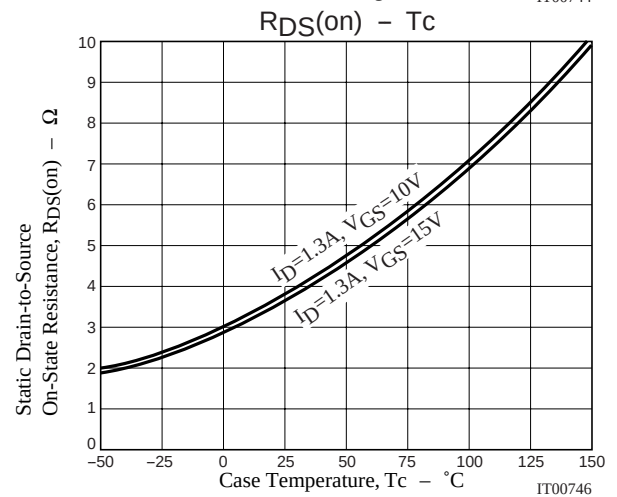
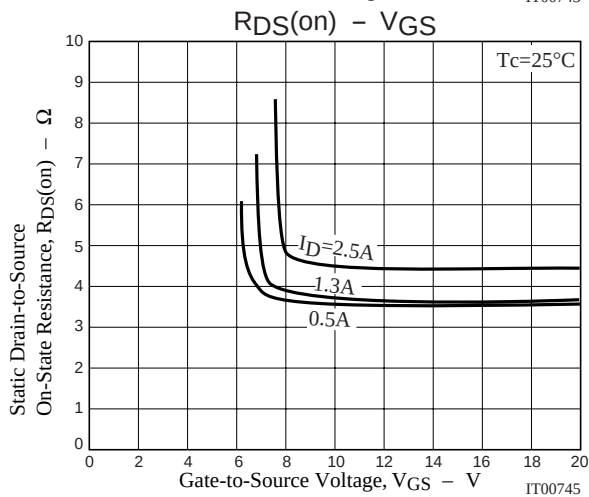
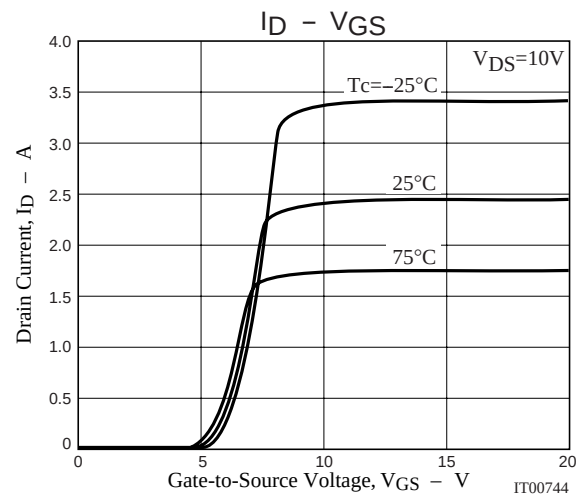
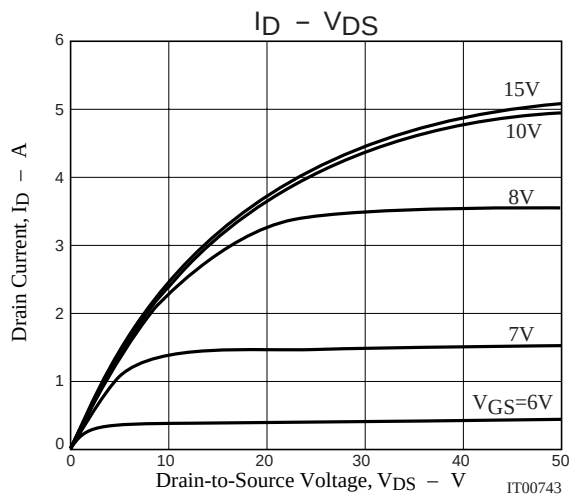
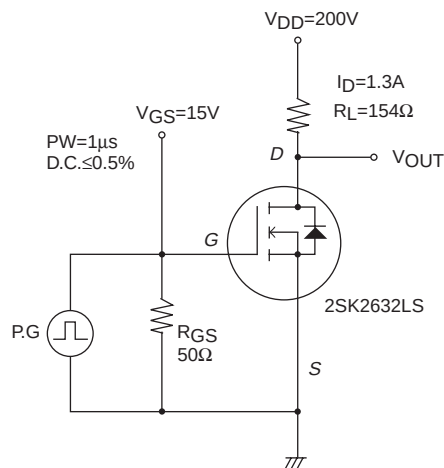
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Total Gate Charge	Q_g	$V_{DS}=200V$, $V_{GS}=10V$, $I_D=2.5A$		15		nC
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit		15		ns
Rise Time	t_r	See specified Test Circuit		15		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit		45		ns
Fall Time	t_f	See specified Test Circuit		23		ns
Diode Forward Voltage	V_{SD}	$I_S=2.5A$, $V_{GS}=0$		0.84	1.2	V

Marking : K2632

Switching Time Test Circuit



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