



SANYO Semiconductors

## DATA SHEET

# 2SK2632LS

N-Channel Silicon MOSFET

## General-Purpose Switching Device Applications

### Features

- Low ON-resistance.
- Low Qg.
- Ultrahigh-speed switching.

### Specifications

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V <sub>DSS</sub>		800	V
Gate-to-Source Voltage	V <sub>GSS</sub>		±30	V
Drain Current (DC)	I <sub>D</sub>		2.5	A
Drain Current (Pulse)	I <sub>DP</sub>	PW≤10μs, duty cycle≤1%	7.5	A
Allowable Power Dissipation	P <sub>D</sub>		2.0	W
		T <sub>c</sub> =25°C	25	W
Channel Temperature	T <sub>ch</sub>		150	°C
Storage Temperature	T <sub>stg</sub>		-55 to +150	°C

#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V <sub>(BR)DSS</sub>	I <sub>D</sub> =1mA, V <sub>GS</sub> =0V	800			V
Zero-Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =800V, V <sub>GS</sub> =0V			1.0	mA
Gate-to-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> =±30V, V <sub>DS</sub> =0V			±100	nA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1mA	3.5		5.5	V
Forward Transfer Admittance	y <sub>fs</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1.3A	0.7	1.4		S
Static Drain-to-Source On-State Resistance	R <sub>DS(on)</sub>	I <sub>D</sub> =1.3A, V <sub>GS</sub> =15V		3.6	4.8	Ω

Marking : K2632

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**SANYO Semiconductor Co., Ltd.**

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# 2SK2632LS

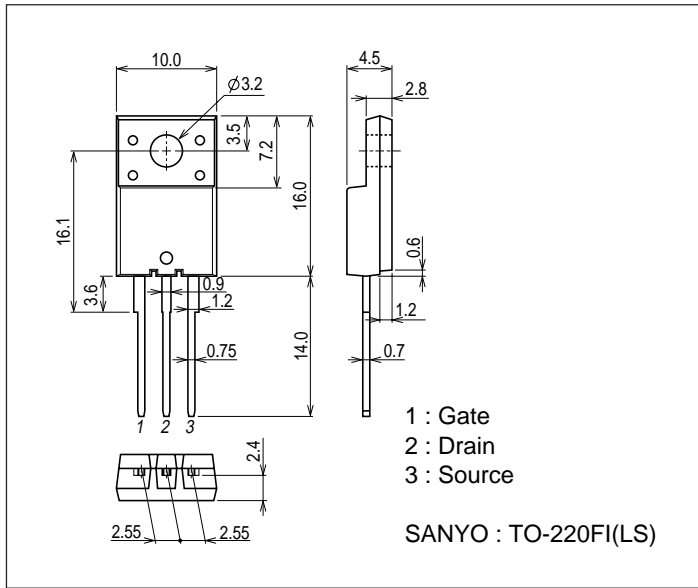
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	Ciss	$V_{DS}=20V, f=1MHz$		550		pF
Output Capacitance	Coss	$V_{DS}=20V, f=1MHz$		150		pF
Reverse Transfer Capacitance	Crss	$V_{DS}=20V, f=1MHz$		70		pF
Total Gate Charge	Qg	$V_{DS}=200V, I_D=2.5A, V_{GS}=10V$		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	VSD	$I_S=2.5A, V_{GS}=0V$		0.84	1.2	V

## Package Dimensions

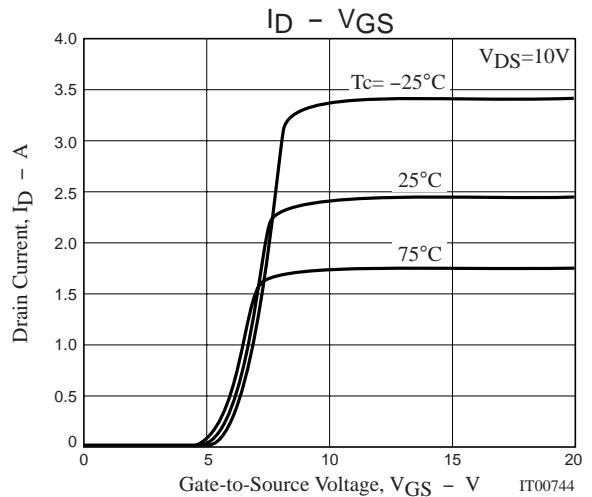
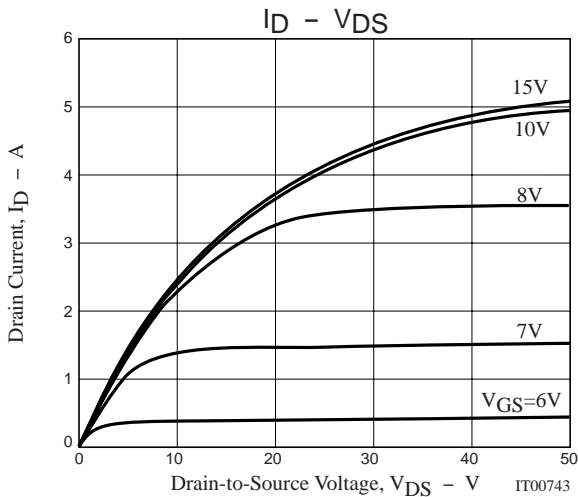
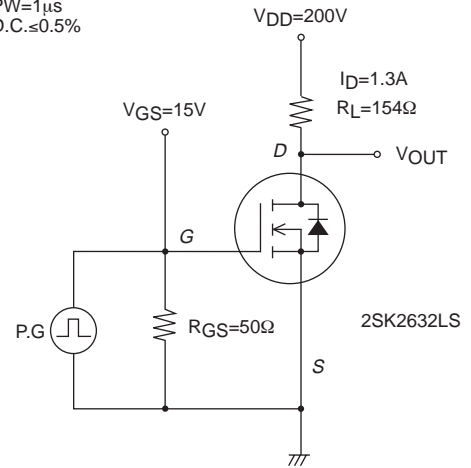
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7509-002

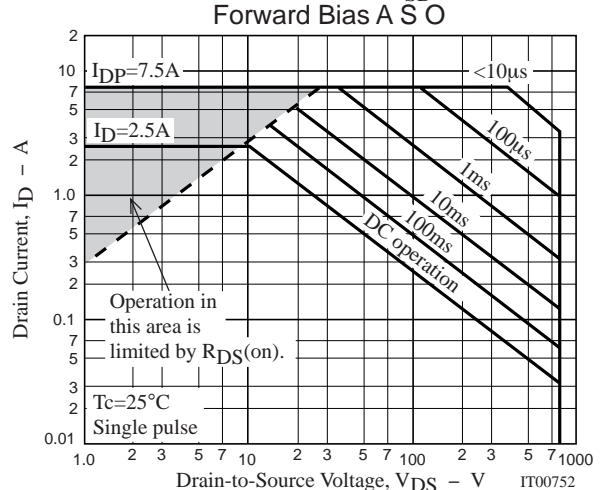
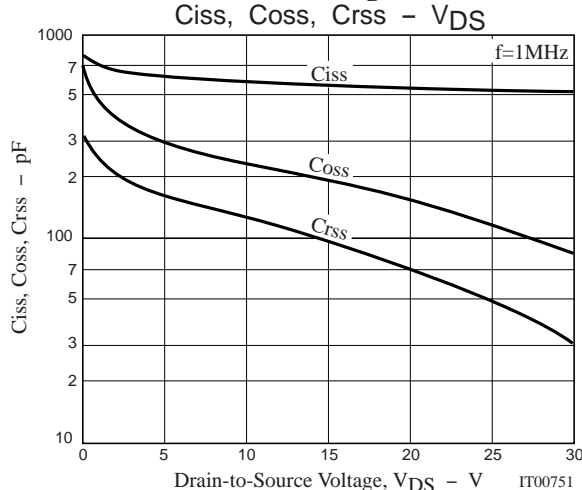
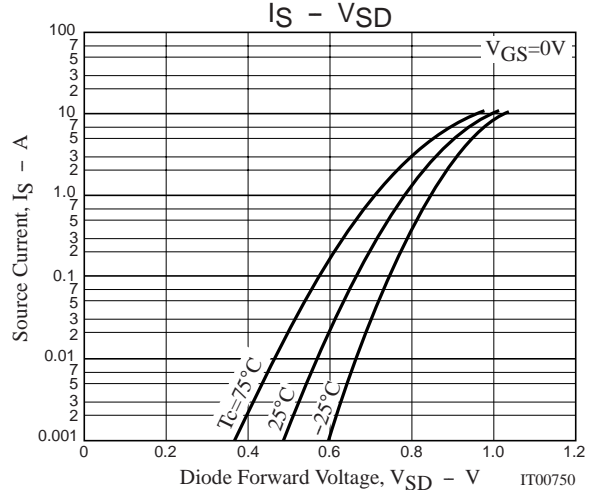
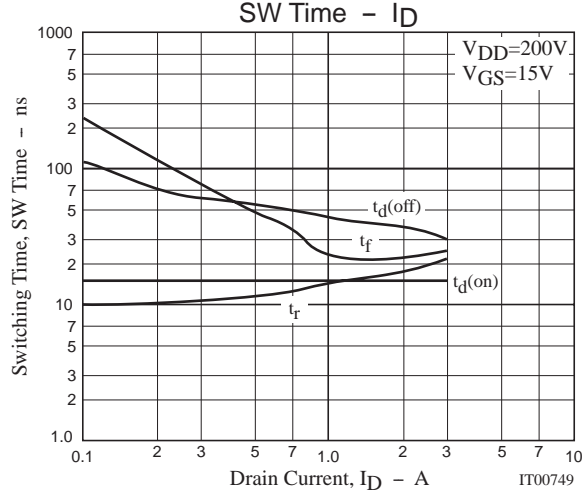
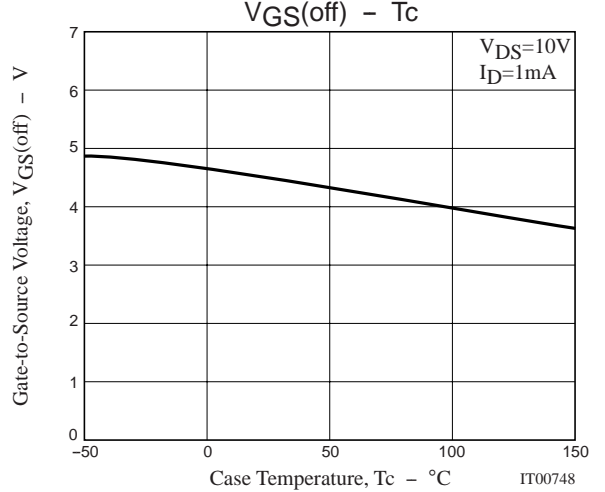
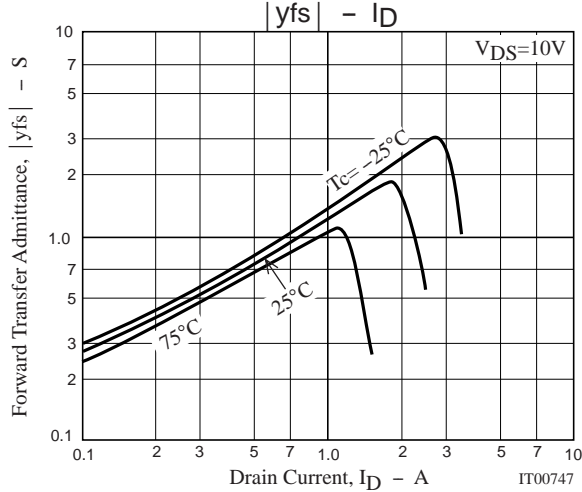
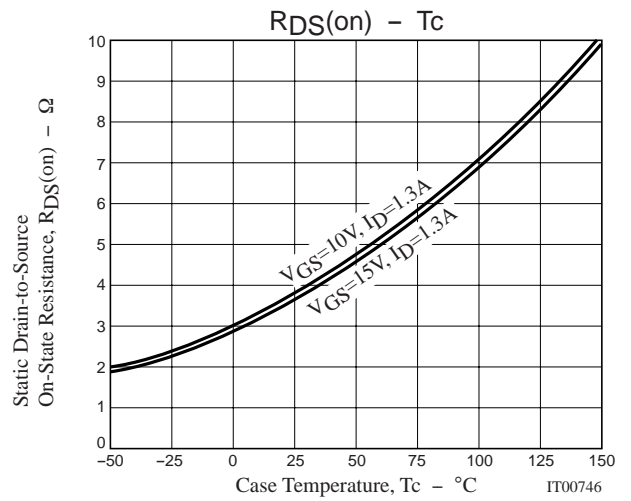
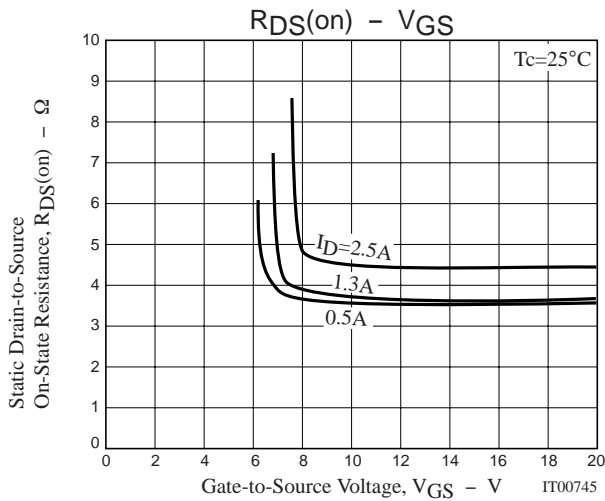


## Switching Time Test Circuit

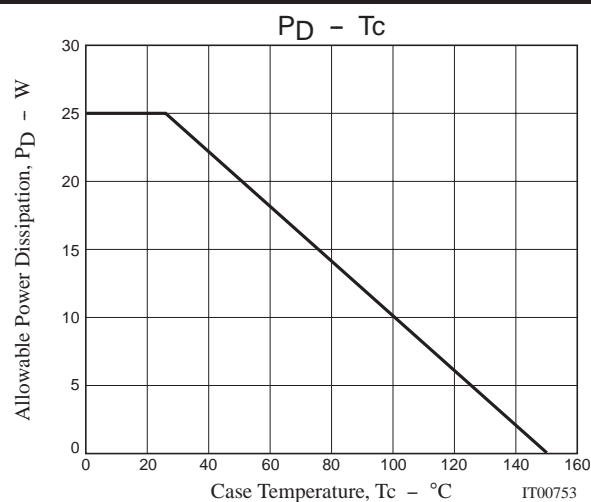
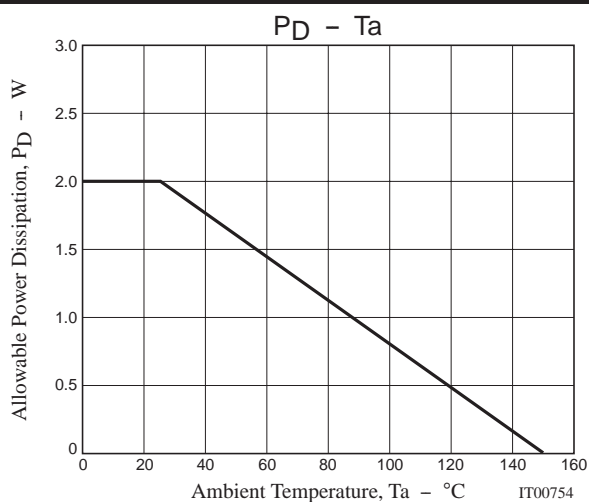
PW=1μs  
D.C.≤0.5%



# 2SK2632LS



## 2SK2632LS



Note on usage : Since the 2SK2632LS is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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