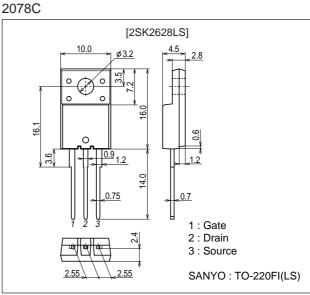


## Features

- · Low ON-resistance.
- · Low Qg.

# **Package Dimensions**

unit : mm



# **Specifications**

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

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		600	V
Gate-to-Source Voltage	VGSS		±30	V
Drain Current (DC)	۱D		6	A
Drain Current (Pulse)	IDP		24	A
Allowable Power Dissipation	De		2.0	W
	PD	Tc=25°C	35	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	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	600			V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =600V, V <sub>GS</sub> =0			1.0	mA
Gate-to-Source Leakage Current	IGSS	VGS=±30V, VDS=0			±100	nA
Cutoff Voltage	VGS(off)	VDS=10V, ID=1mA	3.5		5.5	V
Forward Transfer Admittance	yfs	V <sub>DS</sub> =10V, I <sub>D</sub> =4A	2.0	4.0		S
Static Drain-to-Source On-State Resistance	RDS(on)	ID=2A, VGS=15V		0.9	1.1	Ω
Marking : K2628 Continued on next pas						

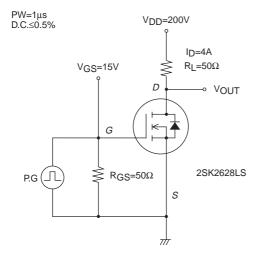
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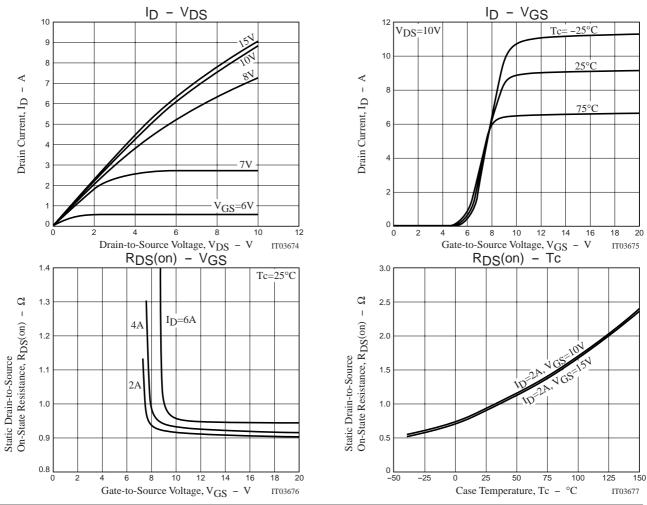
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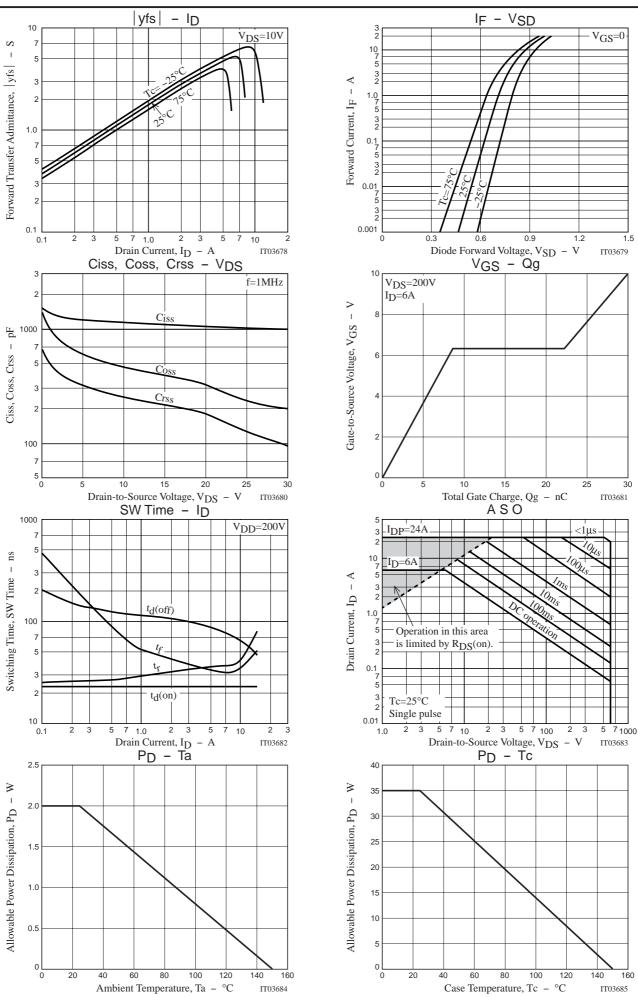
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Input Capacitance	Ciss	V <sub>DS</sub> =20V, f=1MHz		1050		pF
Output Capacitance	Coss	V <sub>DS</sub> =20V, f=1MHz		320		pF
Reverse Transfer Capacitance	Crss	V <sub>DS</sub> =20V, f=1MHz		180		pF
Total Gate Charge	Qg	V <sub>DS</sub> =200V, V <sub>GS</sub> =10V, I <sub>D</sub> =6A		30		nC
Turn-ON Delay Time	t <sub>d</sub> (on)	See specified Test Circuit.		23		ns
Rise Time	tr	See specified Test Circuit.		35		ns
Turn-OFF Delay Time	t <sub>d</sub> (off)	See specified Test Circuit.		90		ns
Fall Time	tf	See specified Test Circuit.		35		ns
Diode Forward Voltage	VSD	IS=6A, VGS=0		0.85	1.2	V

## **Switching Time Test Circuit**





No.7082-2/4



No.7082-3/4

160

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