



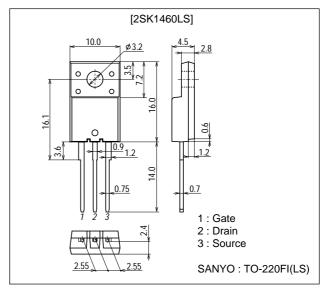
Ultrahigh-Speed Switching Applications

Features

- · Low ON-resistance.
- · Ultrahigh-speed switching.
- · Micaless package facilitating mounting.

Package Dimensions

unit : mm 2078C



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		900	V
Gate-to-Source Voltage	VGSS		±30	V
Drain Current (DC)	ID		3.5	Α
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	7	Α
Allowable Power Dissipation	Do.		2.0	W
	PD	Tc=25°C	40	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	Offic
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _G S=0	900			V
Zero-Gate Voltage Drain Current	IDSS	V _D S=900V, V _G S=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	2.0		3.0	V
Forward Transfer Admittance	yfs	V _{DS} =20V, I _D =2A	1.0	2.0		S

Marking: K1460 Continued on next page.

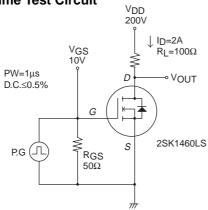
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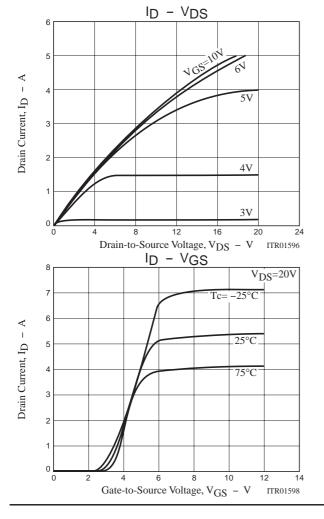
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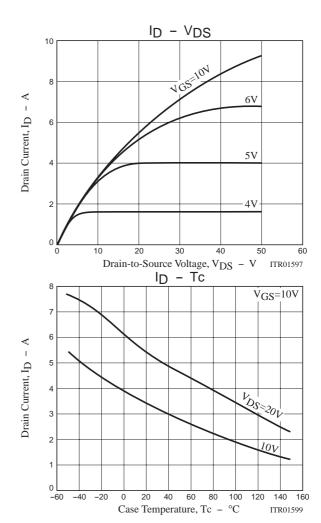
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Static Drain-to-Source On-State Resistance	R _{DS} (on)	I _D =2A, V _{GS} =10V		2.8	3.6	Ω
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		700		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		300		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		170		pF
Turn-ON Delay Time	t _d (on)	I _D =2A, V _{GS} =10V, V _{DD} =200V, R _{GS} =50Ω		15		ns
Rise Time	t _r	ID=2A, VGS=10V, VDD=200V, RGS=50Ω		35		ns
Turn-OFF Delay Time	t _d (off)	I _D =2A, V _G S=10V, V _{DD} =200V, R _G S=50Ω		200		ns
Fall Time	tf	I _D =2A, V _G S=10V, V _{DD} =200V, R _G S=50Ω		65		ns
Diode Forward Voltage	V _{SD}	I _S =3.5A, V _{GS} =0			1.8	V

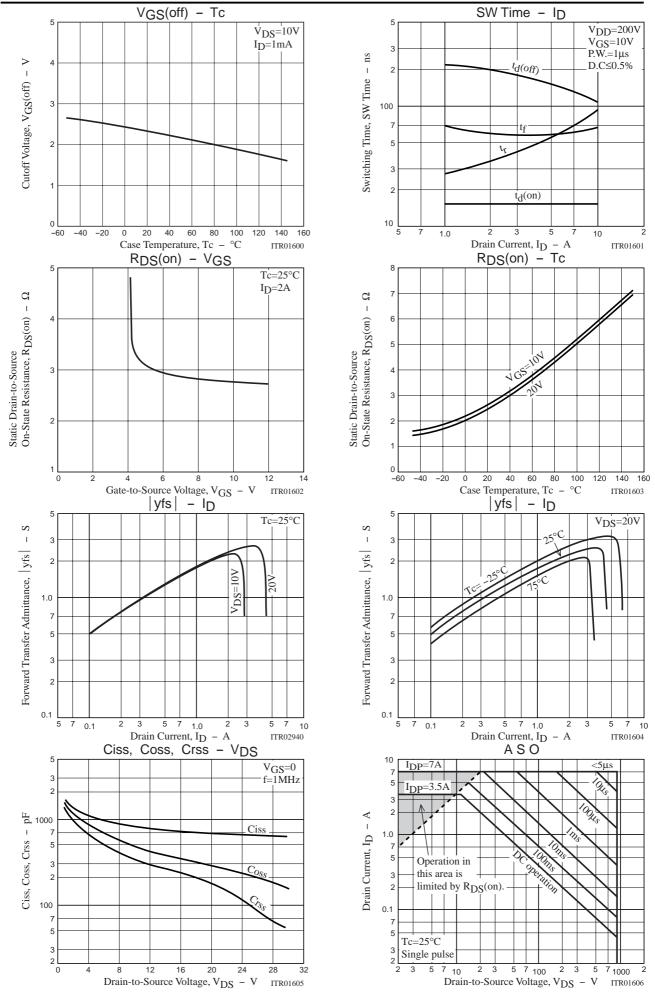
(Note) Be careful in handling the 2SK1460LS because it has no protection diode between gate and source.



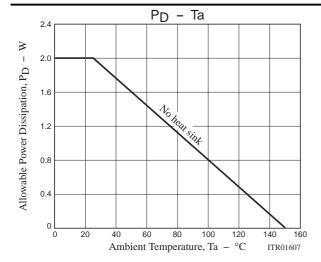


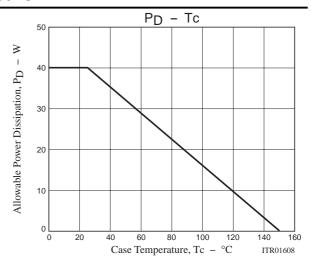






2SK1460LS





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