捷多邦,专业PCB打样工厂,24小时加急出货

查询2SK2464供应商

Ordering number:ENN6475

N-Channel Silicon MOSFET

O Ultrahigh-Speed Switching Applications

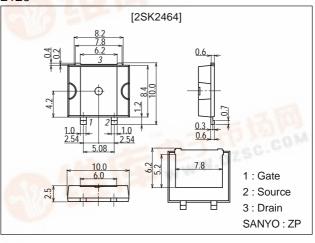
Features

- · Low ON resistance.
- · Ultrahigh-speed switching.
- Enables simplified fabrication, high-density mounding, and miniaturization in end products due to the surface mountable package.

Package Dimensions

unit:mm





Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		30	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	۱ _D		45	А
Drain Current (Pulse)	I _{DP}	PW≤10µs, duty cycle≤1%	180	А
Allowable Power Dissipation	PD	Tc=25°C	50	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0	30			V
Zero Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0			100	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±20V, V _{DS} =0			±100	nA
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, I _D =1mA	2	-	4	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =22A	20	30	2.2.5	S
Static Drain-to-Source On-State Resistance	R _{DS} (on)	I _D =22A, V _{GS} =10V	ER.	8.5	12	mΩ
Input Capacitance	Ciss1	V _{DS} =0V, f=1MHz	W W	3750	4300	pF
	Ciss2	V _{DS} =10V, f=1MHz		2700		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		2300		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		450		pF
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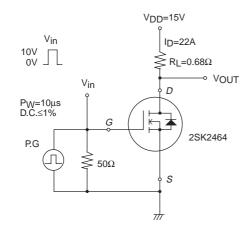
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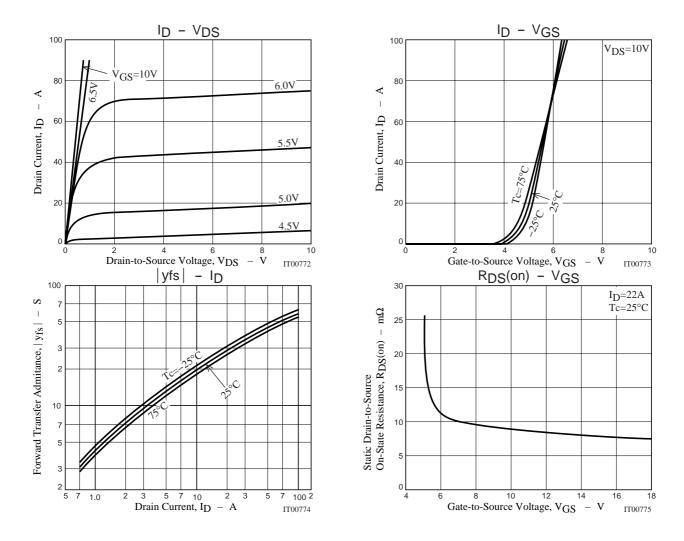
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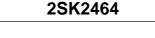
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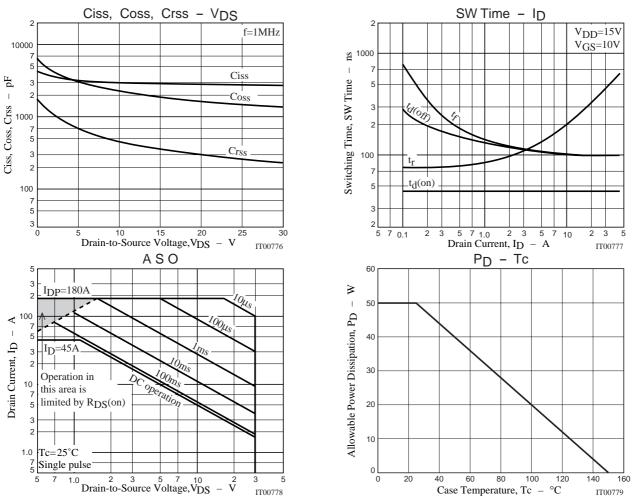
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Turn-ON Delay Time	^t d(on)	See specified Test Circuit		45		ns
Rise Time	tr	See specified Test Circuit		350		ns
Turn-OFF Delay Time	^t d(off)	See specified Test Circuit		100		ns
Fall Time	t _f	See specified Test Circuit		100		ns
Diode Forward Voltage	V _{SD}	I _S =45A, V _{GS} =0		1.0	1.5	V

Switching Time Test Circuit









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