

# **Isc N-Channel MOSFET Transistor**

## 2SK2571

### • FEATURES

- With To-3PML package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



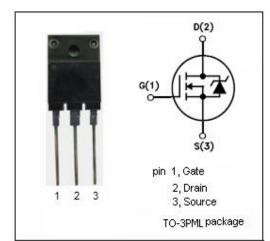
· Switching applications

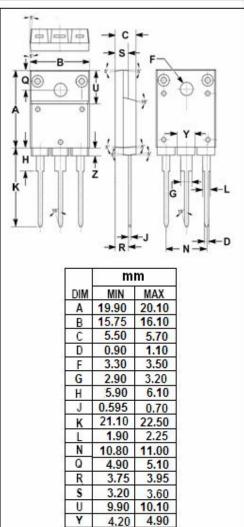


SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	450	V
V <sub>GSS</sub>	Gate-Source Voltage	±30	V
I <sub>D</sub>	Drain Current-Continuous	13	А
I <sub>DM</sub>	Drain Current-Single Pulsed	26	А
P <sub>D</sub>	Total Dissipation @Tc=25℃	100	W
T <sub>ch</sub>	Max. Operating Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}\!\mathbb{C}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	nannel-to-case thermal resistance 1.25		°C/W		
Rth(ch-a)	h(ch-a) Channel-to-ambient thermal resistance		°C/W		





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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =1.0mA	450			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> =1.0mA	2.0		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =7A		340	350	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> =0V			±1	μ <b>А</b>
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =360V; V <sub>GS</sub> = 0V			100	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =13A, V <sub>GS</sub> = 0V			2.0	V

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