

isc N-Channel MOSFET Transistor

2SK3271-01

• FEATURES

- With TO-247 packaging
- · High speed switching
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

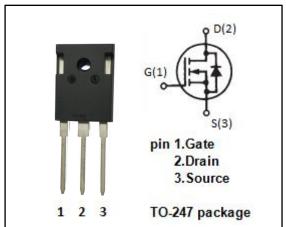


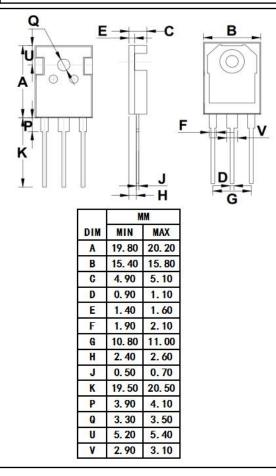
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	100	А
I _{DM}	Drain Current-Single Pulsed	320	Α
P _D	Total Dissipation	155	W
T _j	Operating Junction Temperature	-55~150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.81	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =10mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A			6.5	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0;		1	100	μА
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.5	V



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