

INCHANGE SEMICONDUCTOR

isc N-Channel \MOSFET Transistor

2SK1095

• FEATURES

- With TO-220F packaging
- High speed switching
- · Low gate input resistance
- 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

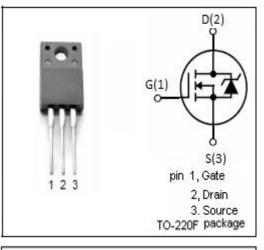
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	v
V _{GSS}	Gate-Source Voltage	±20	v
ID	Drain Current-Continuous	25	А
I _{DM}	Drain Current-Single Pulsed	100	А
PD	Total Dissipation	30	W
Tj	Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

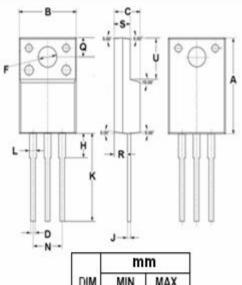
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

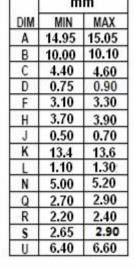
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°C/W	

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	60			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1.0mA	1.0		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A		33	40	mΩ
l _{GSS}	Gate-Source Leakage Current	V _{GS} =±16V;V _{DS} =0V			±10	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 50V; V _{GS} = 0V			250	μA
V _{SDF}	Diode forward voltage	I _{SD} =25A, V _{GS} = 0 V			1.3	V

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