

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK2943

• FEATURES

- With TO-220F packaging
- High speed switching
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

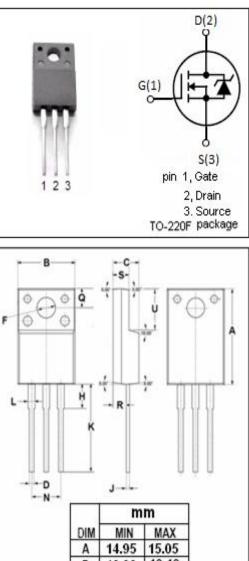
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage 90		V	
V _{GSS}	Gate-Source Voltage	±30	V	
ID	Drain Current-Continuous	3	А	
I _{DM}	Drain Current-Single Pulsed	12	А	
Po	Total Dissipation	30	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

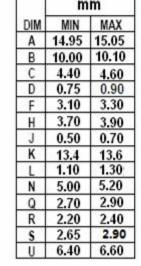
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.6	°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

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	900			v
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =±30V; I _D =1mA	2		4	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.5A		4.0	5.0	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 900V; V _{GS} = 0V			100	μ Α
V _{SDF}	Diode forward voltage	I_{SD} =3A, V_{GS} = 0 V			1.5	v



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