

isc N-Channel MOSFET Transistor

2SK2943

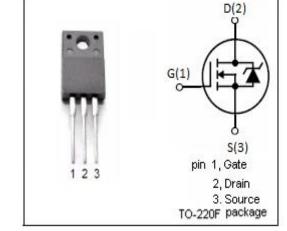
• FEATURES

- · 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

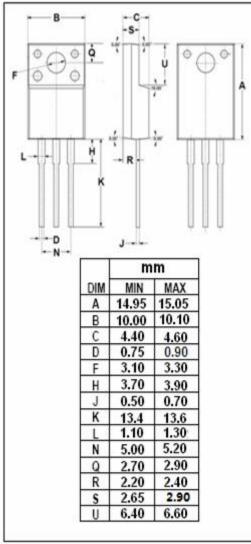


• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	900	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	2.5	А
I _{DM}	Drain Current-Single Pulsed	7.5	А
P _D	Total Dissipation	40	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.13	°C/W
Rth(ch-a) Channel-to-ambient thermal resistance		62.5	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.5A		5.6	6.4	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 720V; V _{GS} = 0V			100	μ А
V _{SDF}	Diode forward voltage	I _{SD} =2.5A, V _{GS} = 0 V			2.0	V



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