

isc N-Channel MOSFET Transistor

FKV550N

• 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

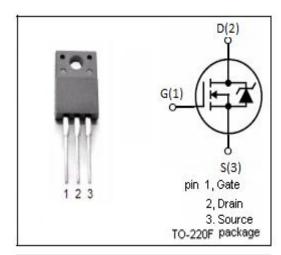


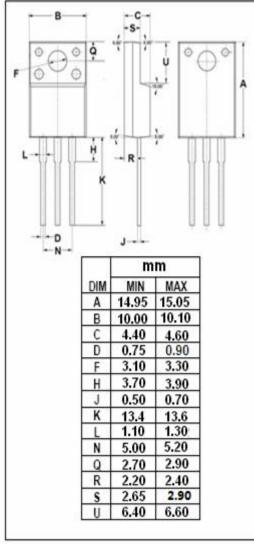
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	50	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	50	А
I _{DM}	Drain Current-Single Pulsed	150	A
P _D	Total Dissipation	35	W
Tj	Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C



SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.6	°C/W	
Rth(ch-a)	-a) Channel-to-ambient thermal resistance		°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	50			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =5V; I _D =0.25mA	3.0		4.2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =25A		12	15	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±10	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 50V; V _{GS} = 0V;			100	μА
V _{SDF}	Diode forward voltage	I _{SD} =50A, V _{GS} = 0 V			1.5	V



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