

isc N-Channel MOSFET Transistor

FKV550T

FEATURES

- Drain Current –I_D= 50A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 50V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 13m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

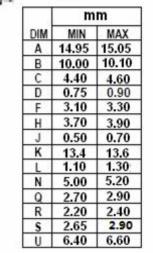
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER VA		UNIT			
V _{DSS}	Drain-Source Voltage	50	V			
V_{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous 5		А			
I _{DM}	Drain Current-Single Pluse	150	А			
P _D	Total Dissipation @T _c =25℃	35	W			
TJ	Iax. Operating Junction Temperature 150		°C			
T _{stg}	Storage Temperature -55~150		°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

pin 1.Gate 2.Drain 3.Source TO-220F package

F



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.57	°C/W

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.1mA	50		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.25mA	1.0	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		13	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 50V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S = 50A; V _{GS} = 0		1.5	V

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