

isc N-Channel MOSFET Transistor

FKI07076

FEATURES

- Drain Current –I_D=55A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=75V(Min)
- Static Drain-Source On-Resistance
 : R_{DS(on)} =6.9m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

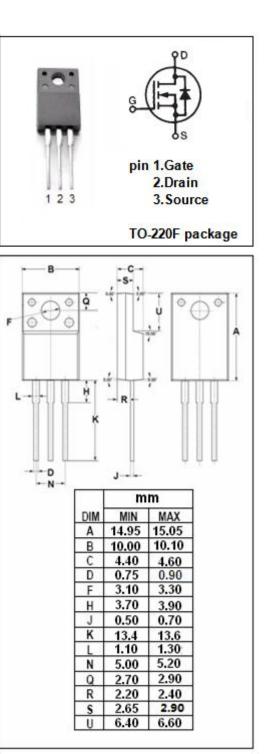
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	PARAMETER V/		UNIT			
V _{DSS}	Drain-Source Voltage	75	V			
V _{GS}	Gate-Source Voltage-Continuous ±20		V			
I _D	Drain Current-Continuous	Current-Continuous 55				
P _D	Total Dissipation @T _c =25°C 42		w			
TJ	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°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	75		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1.5mA	1	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =44A		6.9	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =75V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S =44A; V _{GS} = 0		1.5	V

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