

isc N-Channel MOSFET Transistor

FKI07117

FEATURES

- Drain Current –I_D=42A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=75V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ =9.7m Ω (Max)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



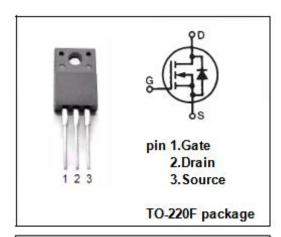
 Designed for use in switch mode power supplies and general purpose applications.

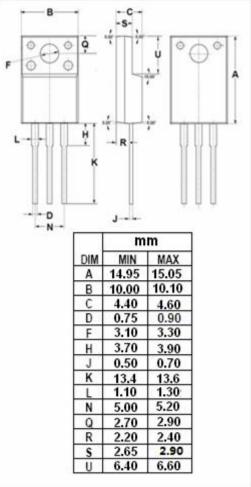
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	75	V
V_{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous 42		А
P _D	Total Dissipation @T _C =25°C 40		W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	\mathbb{C}

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.1	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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 =1mA	1	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =31.2A		9.7	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	μА
V _{SD}	Forward On-Voltage	I _S =31.2A; V _{GS} = 0		1.5	V



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