

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

EKI10300

FEATURES

- Drain Current –I_D=34A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 28.8m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

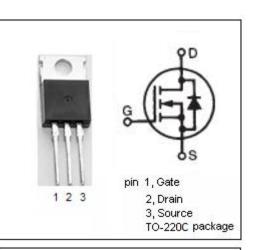
• Designed for use in switch mode power supplies and general purpose applications.

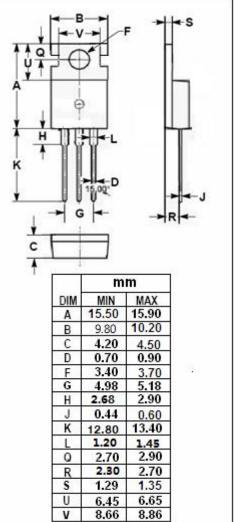
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage		V				
V _{GS}	Gate-Source Voltage-Continuous	±20	V				
ID	Drain Current-Continuous	34	А				
P _D	Total Dissipation @T _C =25℃	90	W				
TJ	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature -55~150		°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.4	°C/W







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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.1mA	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.65mA	1	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =17.1A		28.8	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S =17.1A; V _{GS} = 0		1.5	V

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