

isc N-Channel MOSFET Transistor

RCX120N20

FEATURES

- Drain Current –I_D= 12A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=200V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 325m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

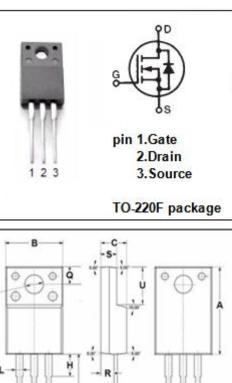
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	200	V			
V_{GS}	Gate-Source Voltage-Continuous	±30	V			
I _D	Drain Current-Continuous		А			
I _{DM}	Drain Current-Single Pluse	48	А			
P _D	Total Dissipation @T _c =25℃	40	W			
TJ	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

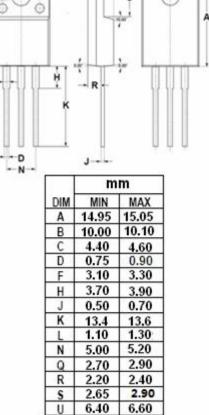
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°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 = 1mA	200		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3.25	5.25	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6A V _{GS} = 10V; I _D = 6A@T _J =125℃		325 790	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0 V _{DS} = 200V; V _{GS} = 0@T _J =125°C		10 100	μA
V _{SD}	Forward On-Voltage	I _S = 12A; V _{GS} = 0		1.5	V

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