

isc N-Channel MOSFET Transistor

RU2H50R

FEATURES

- Static drain-source on-resistance: R_Ds(on) ≤43mΩ
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



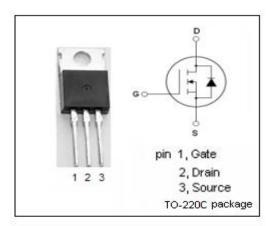
- DC/DC Converter
- · Ideal for high-frequency switching and synchronous rectification

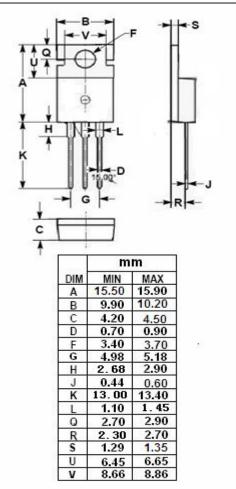
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GS}	Gate-Source Voltage	±25	V	
I _D	Drain Current-Continuous	А		
I _{DM}	Drain Current-Single Pulsed 230		А	
P _D	Total Dissipation @T _C =25℃ 31:		W	
Tj	Max. Operating Junction Temperature 175		${\mathbb C}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th(ch-c)}	Channel-to-case thermal resistance	0.48	°C/W	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =28A			43	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} =0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _S =28A; V _{GS} = 0V			1.2	V



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