

isc N-Channel MOSFET Transistor

BUZ30AH, IBUZ30AH

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤130mΩ
- · Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· High current, high speed switching

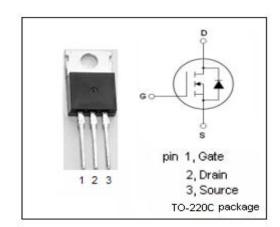
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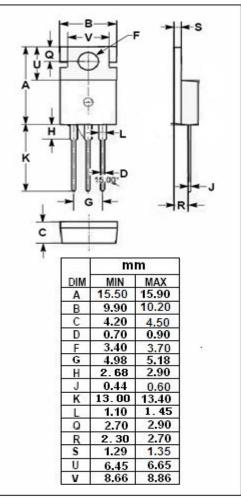
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage 200		V	
V _{GS}	Gate-Source Voltage ±20		V	
I _D	Drain Current-Continuous 21		А	
I _{DM}	Drain Current-Single Pulsed	rent-Single Pulsed 84		
P _D	Total Dissipation @T _C =25℃	°C 125		
Tj	Max. Operating Junction Temperature	Operating Junction Temperature 150		
T _{stg}	Storage Temperature -55~15		$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	°C/W
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°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} ; I _D =1mA	2.1		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =13.5A			130	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V;V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =42A; V _{GS} = 0V			1.6	V

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