

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

MTW32N20E

• FEATURES

- With TO-247 packaging
- · With low gate drive requirements
- · Low switching loss
- · Low on-state resistance
- · Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications

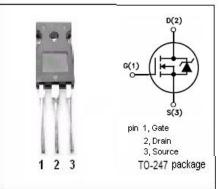
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GSS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous@Tc=25℃ Tc=100℃	32 19	А	
I _{DM}	Drain Current-Single Pulsed	128	А	
PD	Total Dissipation	180	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

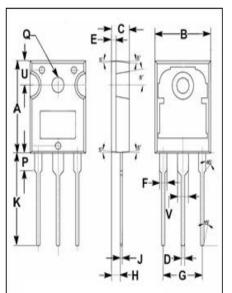
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.7	°C/W

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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	200			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =16A		64	75	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V;@Tc=25°C V _{DS} = 200V; V _{GS} = 0V;Tc=125°C			0.25 1.0	mA
V _{SDF}	Diode forward voltage	I _{SD} =32A, V _{GS} = 0V			2.0	V

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