

isc N-Channel MOSFET Transistor

VN88AF

• FEATURES

- With TO-220 packaging
- · Low switching loss
- · Ultra low gate charge
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS

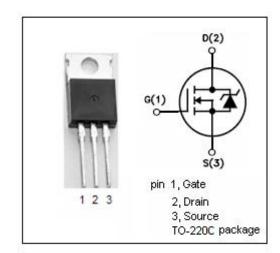
- Switching applications
- AC-DC converters
- · LED lighting
- Uninterruptible power supply

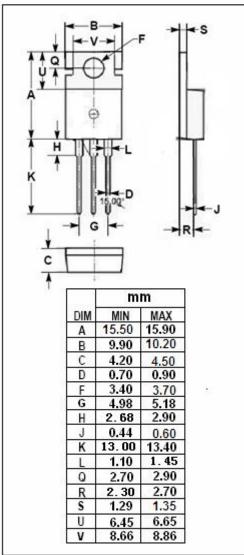
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	80	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	1.29 0.81	А
I _{DM}	Drain Current-Single Pulsed	3	А
P _D	Total Dissipation	15	W
T _j	Operating Junction Temperature	-55~150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.59	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°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 = 1mA	80			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =1mA	0.8		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1A			4	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±15V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 80V; V _{GS} = 0V;Tj=25℃ V _{DS} = 64V; V _{GS} = 0V;Tj=125℃			10 500	μА
V _{SDF}	Diode forward voltage	I _{SD} =0.86A, V _{GS} = 0 V			0.9	V



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