

isc N-Channel MOSFET Transistor

VN1206N5

• FEATURES

- · With TO-220 packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Power supply
- · Switching applications

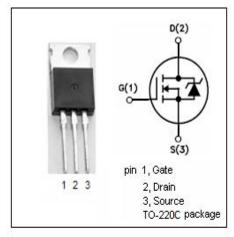


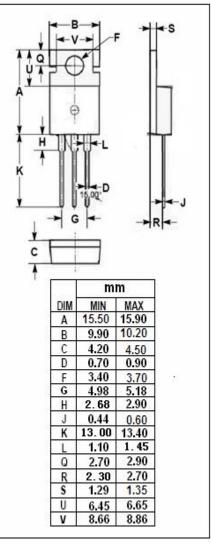
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	9 9	А
I _{DM}	Drain Current-Single Pulsed	35	А
P _D	Total Dissipation	45	W
Tj	Operating Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$



SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.75	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	70	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =10mA	0.8		2.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2A		220	450	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V;Tj=25℃			100	μА
V _{SDF}	Diode forward voltage	I _{SD} =10A, V _{GS} = 0 V			1.4	V



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