

isc N-Channel MOSFET Transistor

3N150S

• FEATURES

- Drain Current $I_D=2.5A@T_C=25^{\circ}C$
- Drain Source Voltage : V_{DSS}= 1500V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 9 Ω (Max)
- Fast Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

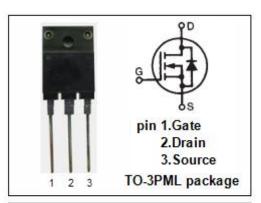
• Switching power supplies, converters, AC and DC motor controls

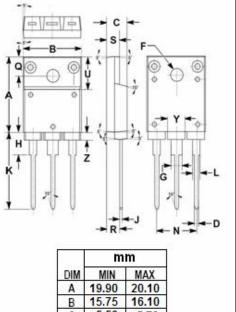
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 1500		V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
lD	Drain Current-Continuous	2.5	A
I _{DM}	Drain Current-Single Plused	10	A
P _D	Total Dissipation @T _c =25°C 63		W
Tj	Max. Operating Junction Temperature -55~150		°C
T _{stg}	Storage Temperature -55~150		°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2	°C/W







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• ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	1500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250uA	3	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.3A		9	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} = 1500V; V _{GS} = 0 V _{DS} = 1500V; V _{GS} = 0;Tj=125℃		10 500	μA
V _{SD}	Diode Forward On-voltage	I _S = 2.5A ;V _{GS} = 0		1.6	V

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