

isc N-Channel MOSFET Transistor

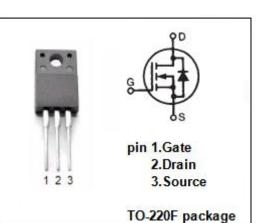
DMG9N65CTI

FEATURES

- Drain Current –I_D= 9A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.3 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Designed for use in switch mode power supplies and general purpose applications.



C 0 Ĥ D J ----- N mm DIM MAX MIN 14.95 15.05 A В 10.00 10.10 C 4.40 4.60 D 0.75 0.90 3.30 F 3.10 Н 3.70 3.90 J 0.50 0.70 ĸ 13.413.61.10 1.30 Ν 5.00 5.20 2.70 2.90 Q R 2.40 2.20 2.65 2.90 s 6.60 U 6.40

F

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	9	А
I _{DM}	Drain Current-Single Pluse	30	А
PD	Total Dissipation @T _C =25℃	13	W
TJ	Max. Operating Junction Temperature -5		°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	8.84	°C/W

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	650		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4.5A		1.3	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.0	V

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