

isc N-Channel MOSFET Transistor

DMG4N60SCT

FEATURES

- Drain Current –I_D= 4.5A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.5 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

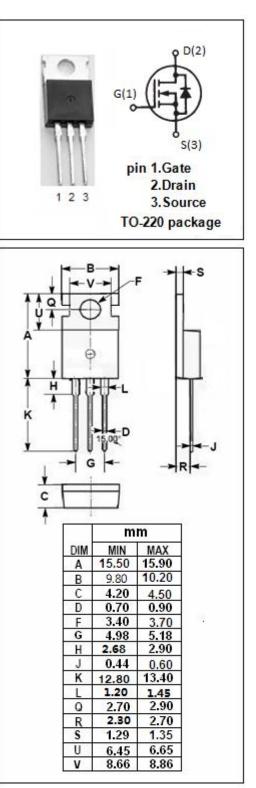
DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C) VALUE SYMBOL PARAMETER UNIT Drain-Source Voltage 600 V VDSS Gate-Source Voltage-Continuous V_{GS} ± 30 V Drain Current-Continuous 4.5 А I_D Drain Current-Single Pluse 6 А **I**DM Total Dissipation @Tc=25°C W \mathbf{P}_{D} 113 Max. Operating Junction Temperature -55~150 °C ТJ Tstg Storage Temperature -55~150 °C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.1	°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	600		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2A		2.5	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.4	V

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