

isc N-Channel MOSFET Transistor

DMG7N65SJ3

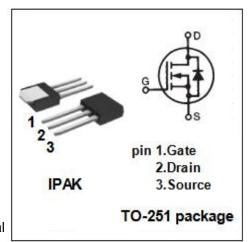
FEATURES

- Drain Current -I_D= 5.5A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.4 \Omega (Max)$
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



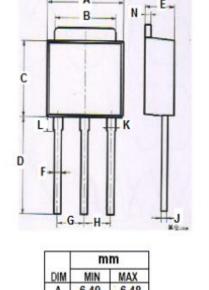
DESCRIPTION

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



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	5.5	Α
I _{DM}	Drain Current-Single Pluse	10	А
P _D	Total Dissipation @T _C =25℃	125	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$



DIM	MIN	MAX
Α	6.40	6.48
В	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
Н	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00

N 0.40 0.60

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	1.0	°C/W



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	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	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		1.4	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±24V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 5A; V _{GS} = 0		1.5	V

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