

isc N-Channel MOSFET Transistor

DMJ70H1D5SV3

FEATURES

- Drain Current –I_D= 5.0A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 700V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.5 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

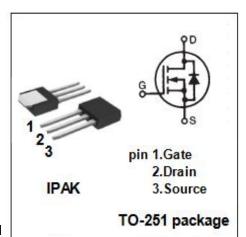
DESCRIPTION

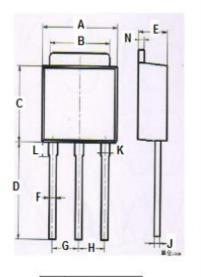
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	700	V			
V_{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	5.0	A			
I _{DM}	Drain Current-Single Pluse	6.0	А			
P _D	Total Dissipation @Tc=25℃	78	W			
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.8	°C/W





	mm	
DIM	MIN	MAX
Α	6.40	6.48
В	5.10	5.50
С	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
Κ	0.70	0.90
L	1.60	2.00
N	0.40	0.60

isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^{\circ}\!\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	700		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 = 1.0A		1.5	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} = 700V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 1.0A; V _{GS} = 0		1.3	V

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