

isc N-Channel MOSFET Transistor

DMJ70H1D4SV3

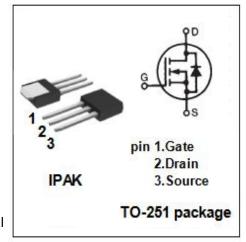
FEATURES

- Drain Current -I_D= 5.0A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 700V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.5 \Omega (Max)$
- · 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.

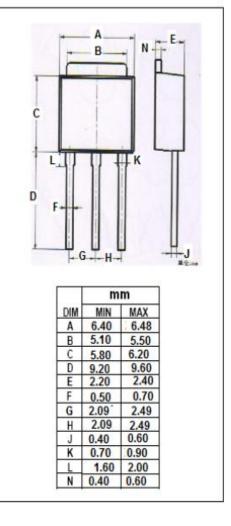


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	700	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	5.0	А
I _{DM}	Drain Current-Single Pluse	6.0	А
P_D	Total Dissipation @T _C =25°C	78	W
TJ	Max. Operating Junction Temperature	k. Operating Junction Temperature -55~150	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$



SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.8	°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	700		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2.0	4.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.0A		1.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 700V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 1.0A; V _{GS} = 0		1.3	V

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