

isc N-Channel MOSFET Transistor

DMJ70H601SV3

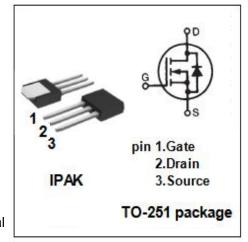
FEATURES

- Drain Current -I_D= 8.0A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 700V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.6 \Omega (Max)$
- · 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.

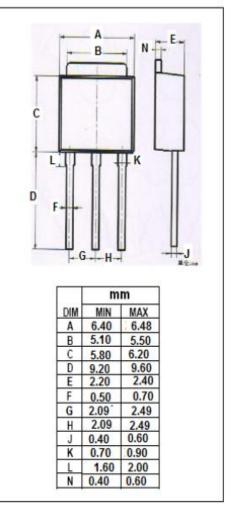


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|---------|------------|
| V_{DSS} | Drain-Source Voltage | 700 | V |
| V _{GS} | Gate-Source Voltage-Continuous | ±30 | V |
| I _D | Drain Current-Continuous | 8.0 | А |
| I _{DM} | Drain Current-Single Pluse | 15 | А |
| P _D | Total Dissipation @T _C =25℃ 78 | | W |
| TJ | Max. Operating Junction Temperature -55~150 | | $^{\circ}$ |
| T _{stg} | Storage Temperature | -55~150 | °C |

THERMAL CHARACTERISTICS

| 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 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D = 2.1A | | 0.6 | Ω |
| Igss | 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 = 2.1A; V _{GS} = 0 | | 1.3 | V |

NOTICE:

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