

isc N-Channel MOSFET Transistor

AOW10N60

FEATURES

- Drain Current –I_D=10A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.75 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

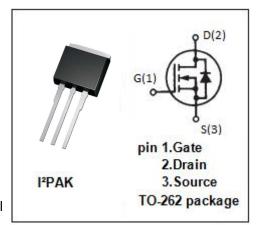
 Designed for use in switch mode power supplies and general purpose applications.

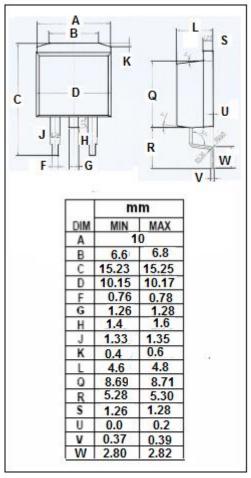
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|-------|------------|
| V _{DSS} | Drain-Source Voltage | V | |
| V _{GS} | Gate-Source Voltage-Continuous | ±30 | V |
| I _D | Drain Current-Continuous | 10 | А |
| I _{DM} | Drain Current-Single Pluse | 36 | А |
| P _D | Total Dissipation @T _C =25℃ 250 | | 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 | 0.5 | °C/W |







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | 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} = 5V; I _D = 0.25mA | 3.0 | 4.5 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D = 5A | | 0.75 | Ω |
| lgss | Gate-Body Leakage Current | V _{GS} = ±30V;V _{DS} = 0 | | ±100 | nA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} = 600V; V _{GS} = 0 V _{DS} = 480V; V _{GS} = 0@T _J =125°C | | 1 10 | μА |
| V _{SD} | Forward On-Voltage | I _S = 1A; V _{GS} = 0 | | 1 | V |

NOTICE:

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