

isc N-Channel MOSFET Transistor
STW36N55M5
• FEATURES

- With TO-247 packaging
- High speed switching
- Low gate input resistance
- Standard level gate drive
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

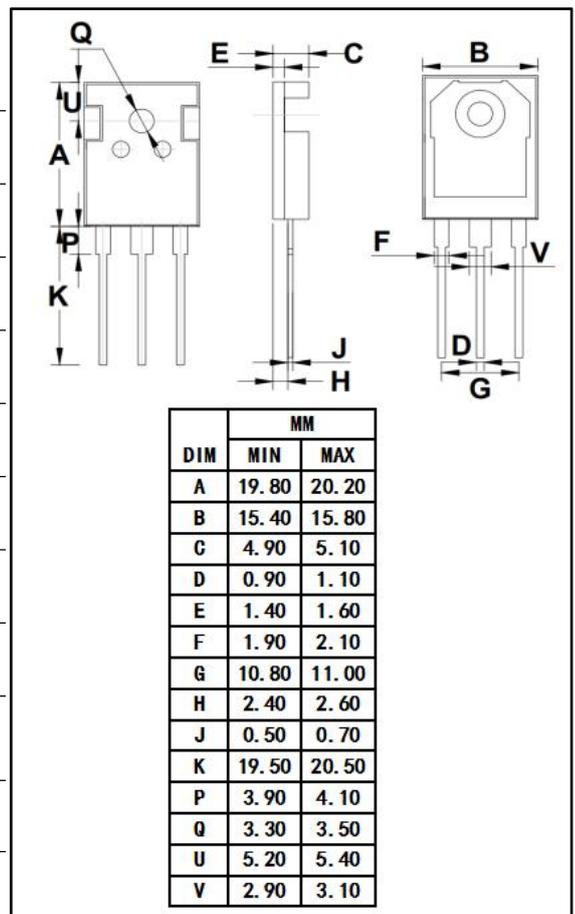
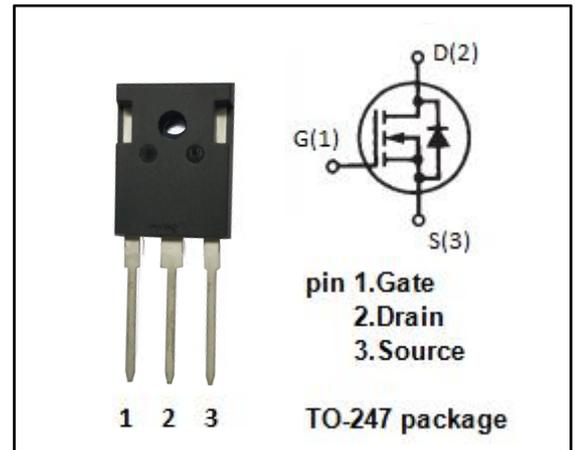
- Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|---------|------|
| V _{DSS} | Drain-Source Voltage | 550 | V |
| V _{GSS} | Gate-Source Voltage | ±25 | V |
| I _D | Drain Current-Continuous@T _c =25°C | 33 | A |
| I _{DM} | Drain Current-Single Pulsed | 132 | A |
| P _D | Total Dissipation | 190 | W |
| T _j | Operating Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55~150 | °C |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|-----------------------|------------------------------------|------|------|
| R _{th(ch-c)} | Channel-to-case thermal resistance | 0.66 | °C/W |



isc N-Channel MOSFET Transistor**STW36N55M5****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------|--------------------------------|---|-----|-----|----------|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 1.0mA | 550 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =V _{GS} ; I _D =0.25mA | 3.0 | | 5.0 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =16.5A | | | 80 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±25V; V _{DS} = 0V | | | ±100 | nA |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = 550V; V _{GS} = 0V; T _c =25°C T _c =125°C | | | 1 100 | μA |
| V _{SDF} | Diode forward voltage | I _{SD} = 33A, V _{GS} = 0 V | | | 1.5 | V |

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