

isc N-Channel MOSFET Transistor

FDB035AN06A0

• FEATURES

- · With TO-263(D2PAK) packaging
- · Single pulse and repetitive pulse
- · High speed switching
- · Low miller charge
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS



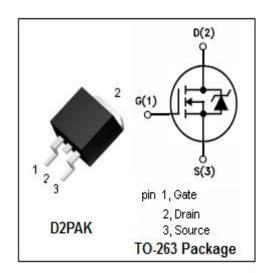
- PFC stages, hard switching PWM stages and resonant switching
- PC Silverbox, Adapter, LCD & PDP TV
- · Lighting, Server, Telecom and UPS

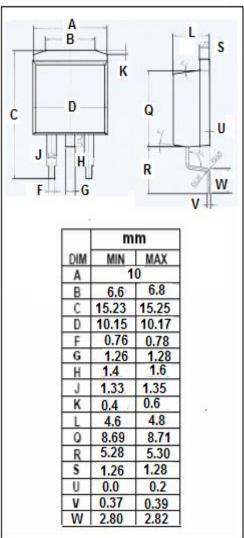
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|--|----------|---------------|
| V _{DSS} | Drain-Source Voltage | 60 | V |
| V _{GSS} | Gate-Source Voltage | ±20 | V |
| I _D | Drain Current-Continuous@ T_c =25° C T_c =100° C | 80 22 | А |
| I _{DM} | Drain Current-Single Pulsed | 400 | А |
| P _D | Total Dissipation | 310 | W |
| Tj | Operating Junction Temperature | -55~175 | ${\mathbb C}$ |
| T _{stg} | Storage Temperature | -55~175 | ${\mathbb C}$ |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER N | | UNIT | | |
|-----------|---------------------------------------|------|------|--|--|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.48 | °C/W | | |
| Rth(ch-a) | Channel-to-ambient thermal resistance | 62 | °C/W | | |







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|---------------------|--------------------------------|---|-----|-----|----------|-------------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 0.25mA | 60 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =±20V; I _D =0.25mA | | | 4 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =80A | | 6.5 | 7.1 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±20V;V _{DS} = 0V | | | ±1 | μ A |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = 60V; V _{GS} = 0V@Tj=25℃ Tj=150℃ | | | 1 250 | μА |
| V _{SDF} | Diode forward voltage | I _{SD} =80A, V _{GS} = 0 V | | | 1.25 | V |

NOTICE:

isc website: www.iscsemi.cn

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