

isc N-Channel MOSFET Transistor

FCPF850N80Z

FEATURES

- Drain Current : I_D= 8A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage
 : V_{DSS}= 800V(Min)
- Static Drain-Source On-Resistance
 - : R_{DS(on)} = 0.85 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

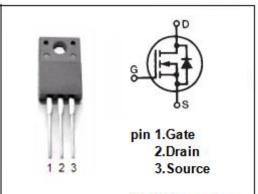
 motor drive, DC-DC converter, power switch and solenoid drive.

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

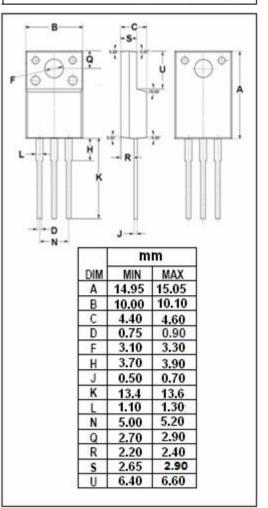
| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|----------------------------------|---------|------|
| V _{DSS} | Drain-Source Voltage | 800 | V |
| V _{GSS} | Gate-Source Voltage | ±20 | V |
| ID | Drain Current-Continuous;@Tc=25℃ | 8 | A |
| I _{DM} | Drain Current-Single Pulsed | 18 | A |
| PD | Total Dissipation | 28 | W |
| Tj | Operating Junction Temperature | -55~150 | °C |
| T _{stg} | Storage Temperature | -55~150 | °C |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|-----------|------------------------------------|-----|------|
| Rth(ch-c) | Channel-to-case thermal resistance | 4.4 | °C/W |







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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|----------------------|--------------------------------|---|-----|-----|------|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 1mA | 800 | | | V |
| V _{GS} (th) | Gate Threshold Voltage | V _{DS} =V _{GS} ; I _D = 0.6mA | 2.5 | | 4.5 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D = 3A | | | 0.85 | Ω |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} =±20V;V _{DS} = 0V | | | ±10 | uA |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = 800V; V _{GS} = 0V | | | 25 | uA |
| Vsd | Diode forward voltage | I _{SD} = 6A, V _{GS} = 0 V | | | 1.2 | V |

NOTICE:

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