

isc N-Channel MOSFET Transistor

2SK3926-01MR

FEATURES

- Drain Current : I_D= 34A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 250V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 110 \text{m} \Omega \text{ (Max) @V_{GS}} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

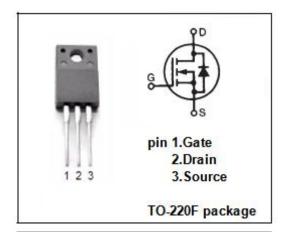
 motor drive, DC-DC converter, power switch and solenoid drive.

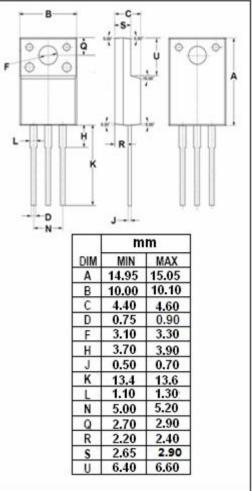
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|-------|---------------|
| V _{DSS} | Drain-Source Voltage | 250 | V |
| V _{GS} | Gate-Source Voltage-Continuous | ±30 | V |
| I _D | Drain Current-Continuous | 34 | Α |
| I _{DM} | Drain Current-Single Pluse | 136 | А |
| P_D | Total Dissipation @T _C =25℃ | 95 | W |
| TJ | Max. Operating Junction Temperature -55~150 | | ${\mathbb C}$ |
| T _{stg} | Storage Temperature -55~150 | | $^{\circ}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|--------------------------------------|-------|------|
| R _{th j-c} | Thermal Resistance, Junction to Case | 1.316 | °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 | 250 | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} = 10V; I _D = 0.25mA | 3.0 | 5.0 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D = 17A | | 110 | mΩ |
| I _{GSS} | Gate-Body Leakage Current | V _{GS} = ±30V;V _{DS} = 0 | | ±0.1 | uA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} = 250V; V _{GS} = 0 | | 25 | uA |
| V _{SD} | Forward On-Voltage | I _S = 34A; V _{GS} = 0 | | 1.5 | V |

NOTICE:

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