

isc N-Channel MOSFET Transistor

2SK2943

• FEATURES

- · With TO-220F packaging
- · High speed switching
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



- Power supply
- · Switching applications

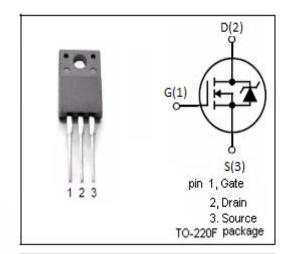


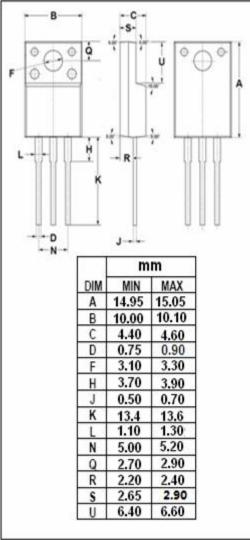
| ABSOLUTE | MAXIMUM | RATINGS(T _a =25 | °C) |
|------------------------------|---------|----------------------------|-----|
|------------------------------|---------|----------------------------|-----|

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|--------------------------------|---------|--------------|
| V _{DSS} | Drain-Source Voltage | 900 | V |
| V _{GSS} | Gate-Source Voltage | ±30 | V |
| I _D | Drain Current-Continuous | 2.5 | Α |
| I _{DM} | Drain Current-Single Pulsed | 7.5 | А |
| P _D | Total Dissipation | 40 | W |
| Tj | Operating Junction Temperature | -55~150 | $^{\circ}$ C |
| T _{stg} | Storage Temperature | -55~150 | $^{\circ}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | | UNIT | |
|-----------|---------------------------------------|------|------|--|
| Rth(ch-c) | Channel-to-case thermal resistance | 3.13 | °C/W | |
| Rth(ch-a) | Channel-to-ambient thermal resistance | 62.5 | °C/W | |





isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|----------------------|--------------------------------|--|-----|-----|-----|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 10mA | 900 | | | V |
| V _{GS} (th) | Gate Threshold Voltage | V _{DS} =10V; I _D =1mA | 2 | | 4 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =1.5A | | 5.6 | 6.4 | Ω |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±25V;V _{DS} = 0V | | | ±10 | μА |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = 720V; V _{GS} = 0V | | | 100 | μА |
| V _{SDF} | Diode forward voltage | I _{SD} =2.5A, V _{GS} = 0 V | | | 2.0 | V |