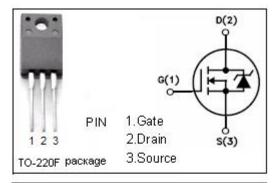


isc N-Channel MOSFET Transistor

2SK1460

DESCRIPTION

- Drain Current –I_D=3.5A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage-
- : V_{DSS}=900 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



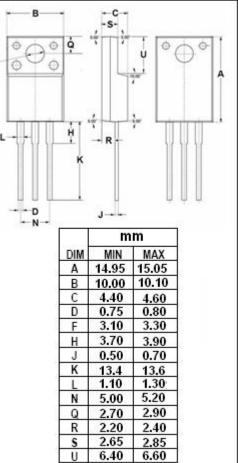
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APPLICATIONS

• Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS, AC and DC motor controls, relay and solenoid drivers.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | ARAMETER | VALUE | UNI T |
|------------------|---|---------|----------|
| V _{DSS} | Drain-Source Voltage (V _{GS} =0) | 900 | V |
| V_{GS} | Gate-Source Voltage | ±30 | V |
| ID | Drain Current-continuous@ TC=25℃ | 3.5 | А |
| P _{tot} | Total Dissipation@TC=25°C | 40 | w |
| Tj | Max. Operating Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature Range | -55~150 | °C |



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isc N-Channel Mosfet Transistor

2SK1460

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|----------------------|----------------------------------|--|-----|-----|------|------|
| V _{(BR)DSS} | Drain-Source Breakdown Voltage | V _{GS} =0; I _D = 10mA | 900 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =10V; I _D =1mA | 2.0 | | 3.0 | V |
| R _{DS(on)} | Drain-Source On-stage Resistance | V _{GS} =10V; I _D =2A | | 2.8 | 3.6 | Ω |
| I _{GSS} | Gate Source Leakage Current | V _{GS} = ±30V;V _{DS} =0 | | | ±100 | nA |
| Idss | Zero Gate Voltage Drain Current | V _{DS} =900V; V _{GS} = 0 | | | 1 | mA |
| V_{SD} | Diode Forward Voltage | I _F =3.5A; V _{GS} =0 | | | 1.8 | V |
| tr | Rise time | | | 35 | | ns |
| ton | Turn-on time | V _{GS} =10V;I _D =2A;R _L =50 Ω | | 50 | | ns |
| tf | Fall time | | | 65 | | ns |
| toff | Turn-off time | | | 265 | | ns |

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

Notice:

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