

isc N-Channel MOSFET Transistor

2SK1570

DESCRIPTION

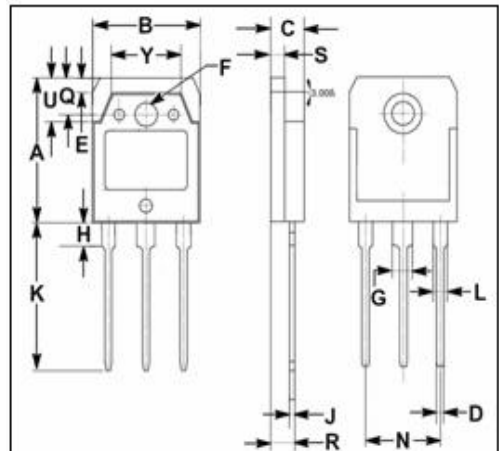
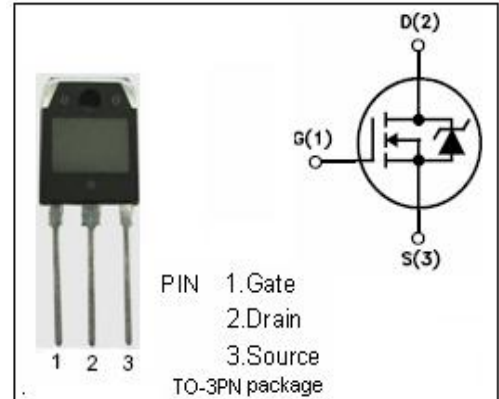
- Drain Current $-I_D=12A @ T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS}=450$ (Min)

APPLICATIONS

- Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

| SYMBOL | ARAMETER | VALUE | UNI T |
|-----------|---|----------|------------|
| V_{DSS} | Drain-Source Voltage ($V_{GS}=0$) | 450 | V |
| V_{GS} | Gate-Source Voltage | ± 30 | V |
| I_D | Drain Current-continuous@ $TC=25^\circ C$ | 12 | A |
| P_{tot} | Total Dissipation@ $TC=25^\circ C$ | 150 | W |
| T_j | Max. Operating Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ C$ |



| DIM | mm | |
|-----|-------|-------|
| | MIN | MAX |
| A | 19.90 | 20.10 |
| B | 15.50 | 15.70 |
| C | 4.70 | 4.90 |
| D | 0.90 | 1.10 |
| E | 1.90 | 2.10 |
| F | 3.40 | 3.60 |
| G | 2.90 | 3.10 |
| H | 3.20 | 3.40 |
| J | 0.595 | 0.605 |
| K | 20.50 | 20.70 |
| L | 1.90 | 2.10 |
| N | 10.89 | 10.91 |
| Q | 4.90 | 5.10 |
| R | 3.35 | 3.45 |
| S | 1.995 | 2.005 |
| U | 5.90 | 6.10 |
| Y | 9.90 | 10.10 |

isc N-Channel Mosfet Transistor**2SK1570****• ELECTRICAL CHARACTERISTICS (T_C=25°C)**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|----------------------|----------------------------------|---|-----|-----|-------|------|
| V _{(BR)DSS} | Drain-Source Breakdown Voltage | V _{GS} =0; I _D = 10mA | 450 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =0; I _D =1mA | 2.0 | 3.0 | 4.0 | V |
| R _{DS(on)} | Drain-Source On-stage Resistance | V _{GS} =10V; I _D =6A | | | 0.75 | Ω |
| I _{GSS} | Gate Source Leakage Current | V _{GS} = ±30V; V _{DS} = 0 | | | ± 100 | nA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} =450V; V _{GS} = 0 | | | 500 | uA |