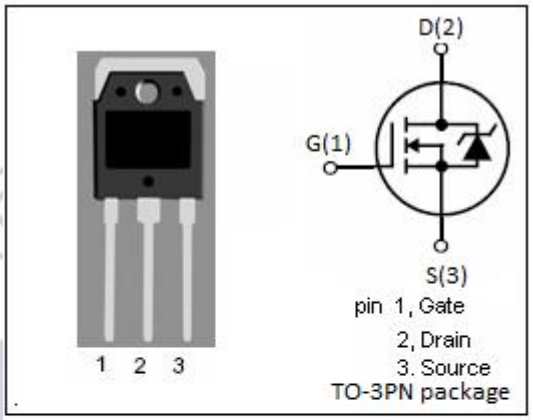
# isc N-Channel MOSFET Transistor 2SK787

## DESCRIPTION

- Drain Current –$I_D$=8A@ $T_C$=25℃
- Drain Source Voltage-
  : $V_{DSS}$= 900V(Min)
- Fast Switching Speed




## APPLICATIONS

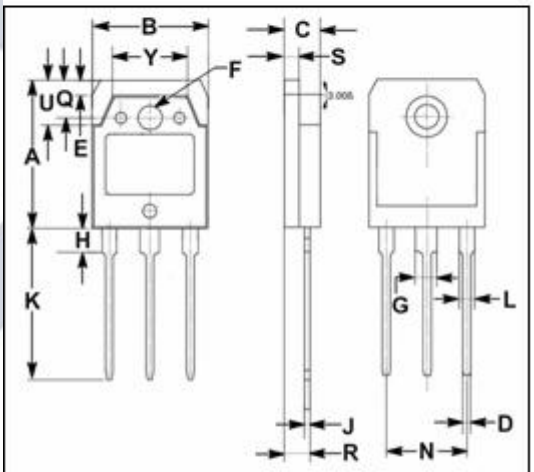
- Designed for switching power supplies，actuater control,and pulse circuits.

## ABSOLUTE MAXIMUM RATINGS($T_a$=25℃)

| SYMBOL | ARAMETER | VALUE | UNIT |
|---|---|---|---|
| $V_{DSS}$ | Drain-Source Voltage ($V_{GS}$=0) | 900 | V |
| $V_{GS}$ | Gate-Source Voltage | ±20 | V |
| $I_D$ | Drain Current-continuous@ TC=25℃ | 8 | A |
| $P_{tot}$ | Total Dissipation@TC=25℃ | 120 | W |
| $T_j$ | Max. Operating Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature Range | -55~150 | ℃ |

## THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---|---|---|---|
| $R_{th\ j\text{-}c}$ | Thermal Resistance,Junction to Case | 1.0 | ℃/W |
| $R_{th\ j\text{-}a}$ | Thermal Resistance,Junction to Ambient | 62.5 | ℃/W |




| DIM | mm MIN | MAX |
|---|---|---|
| A | 19.60 | 20.30 |
| 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 | 3.20 |
| H | 3.20 | 3.40 |
| J | 0.595 | 0.605 |
| K | 19.80 | 20.70 |
| L | 1.90 | 2.20 |
| N | 10.89 | 10.91 |
| Q | 4.90 | 5.10 |
| R | 3.35 | 3.45 |
| S | 1.995 | 2.100 |
| U | 5.90 | 6.20 |
| Y | 9.90 | 10.10 |



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# isc N-Channel Mosfet Transistor 2SK787

• **ELECTRICAL CHARACTERISTICS ($T_C$=25℃)**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| $V_{(BR)DSS}$ | Drain-Source Breakdown Voltage | $V_{GS}$=0; $I_D$= 250uA | 900 | | | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | $V_{DS}$=10 V; $I_D$=1mA | 2.0 | | 4.0 | V |
| $R_{DS(on)}$ | Drain-Source On-stage Resistance | $V_{GS}$=10V; $I_D$= 4A | | | 1.6 | Ω |
| $I_{GSS}$ | Gate Source Leakage Current | $V_{GS}$= ±20V;$V_{DS}$= 0 | | | ±100 | nA |
| $I_{DSS}$ | Zero Gate Voltage Drain Current | $V_{DS}$=900V; $V_{GS}$= 0 | | | 100 | uA |
| $V_{SD}$ | Diode Forward Voltage | $I_F$= 8A; $V_{GS}$=0 | | | 1.5 | V |



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