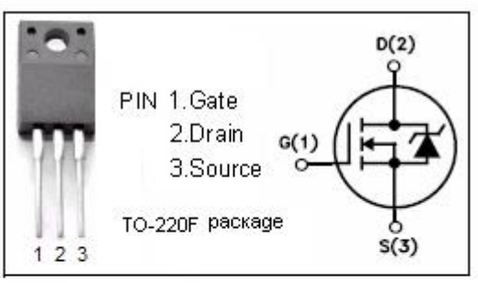
TAVAKOL ELECTRONIC
توکل الکترونیک
مرجع تخصصی تأمین قطعات الکترونیکی اورجینال
این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وب‌سایت توکل الکترونیک مراجعه فرمایید.
مشاهده قیمت و خرید
برای خرید و مشاهده سایر محصولات کلیک کنید

INCHANGE SEMICONDUCTOR

# isc N-Channel MOSFET Transistor 2SK2333

## DESCRIPTION

- Drain Current $I_D$= 6A@ $T_C$=25℃
- Drain Source Voltage-
  : $V_{DSS}$= 700V(Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

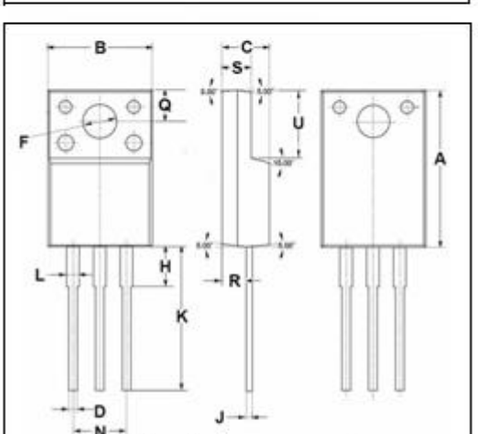



## APPLICATIONS

- Switching Regulators

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

| SYMBOL | ARAMETER | VALUE | UNIT |
|---|---|---|---|
| $V_{DSS}$ | Drain-Source Voltage ($V_{GS}$=0) | 700 | V |
| $V_{GS}$ | Gate-Source Voltage | ±30 | V |
| $I_D$ | Drain Current-continuous@ TC=25℃ | 6 | A |
| $I_{D(puls)}$ | Pulsed Drain Current | 18 | A |
| $P_{tot}$ | Total Dissipation@$T_C$=25℃ | 50 | W |
| $T_j$ | Max. Operating Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature Range | -55~150 | ℃ |




| DIM | mm MIN | MAX |
|---|---|---|
| A | 14.95 | 15.05 |
| B | 10.00 | 10.10 |
| C | 4.40 | 4.60 |
| D | 0.75 | 0.80 |
| F | 3.10 | 3.30 |
| H | 3.70 | 3.90 |
| J | 0.50 | 0.70 |
| K | 13.4 | 13.6 |
| L | 1.10 | 1.30 |
| N | 5.00 | 5.20 |
| Q | 2.70 | 2.90 |
| R | 2.20 | 2.40 |
| S | 2.65 | 2.85 |
| U | 6.40 | 6.60 |

# isc N-Channel Mosfet Transistor 2SK2333

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

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYPE | MAX | UNIT |
|---|---|---|---|---|---|---|
| $V_{(BR)DSS}$ | Drain-Source Breakdown Voltage | $V_{GS}$= 0; $I_D$= 1mA | 700 | | | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | $V_{DS}$= 10V; $I_D$=1mA | 2.5 | | 3.5 | V |
| $V_{SD}$ | Forward On-Voltage | $I_S$=3A; $V_{GS}$=0 | | | 1.5 | V |
| $R_{DS(on)}$ | Drain-Source On-Resistance | $V_{GS}$= 10V; $I_D$= 3A | | 1.5 | 2.0 | Ω |
| $I_{GSS}$ | Gate-Body Leakage Current | $V_{GS}$= ±30V;$V_{DS}$= 0 | | | ±100 | nA |
| $I_{DSS}$ | Zero Gate Voltage Drain Current | $V_{DS}$= 700V; $V_{GS}$= 0 | | | 250 | μA |
| $C_{iss}$ | Input Capacitance | $V_{DS}$=10V; $V_{GS}$=0V; $f_T$=1MHz | | 1250 | | pF |
| $C_{rss}$ | Reverse Transfer Capacitance | | | 250 | | |
| $C_{oss}$ | Output Capacitance | | | 530 | | |
| $t_r$ | Rise Time | $V_{GS}$=10V;$I_D$=3A; $R_L$=50Ω | | 60 | 110 | ns |
| $t_f$ | Fall Time | | | 160 | 250 | |

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