

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



isc®

INCHANG SEMICONDUCTOR

## isc N-Channel MOSFET Transistor

## IRFP4568, IIRFP4568

## • FEATURES

- Static drain-source on-resistance:  
 $R_{DS(on)} \leq 5.9m\Omega$
- Enhancement mode:  
 $V_{th} = 3.0 \text{ to } 5.0 \text{ V}$  ( $V_{DS}=V_{GS}$ ,  $I_D=250 \mu A$ )
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## • DESCRIPTION

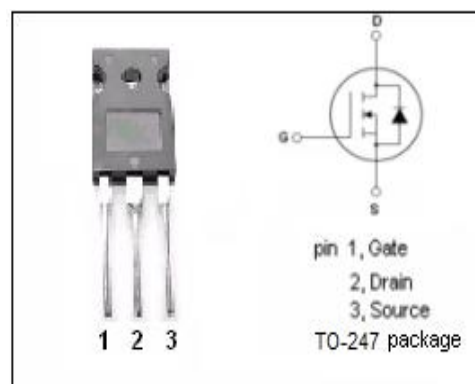
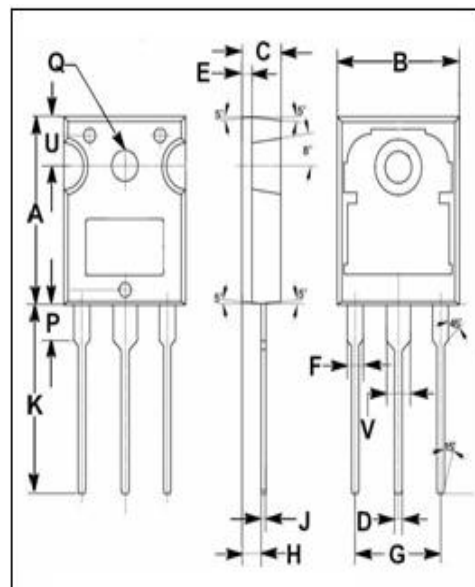
- High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply
- High Speed Power Switching
- Hard Switched And High Frequency Circuits

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

| SYMBOL    | PARAMETER                            | VALUE    | UNIT       |
|-----------|--------------------------------------|----------|------------|
| $V_{DS}$  | Drain-Source Voltage                 | 150      | V          |
| $V_{GS}$  | Gate-Source Voltage                  | $\pm 30$ | V          |
| $I_D$     | Drain Current-Continuous             | 171      | A          |
| $I_{DM}$  | Drain Current-Single Pulsed          | 684      | A          |
| $P_D$     | Total Dissipation @ $T_c=25^\circ C$ | 517      | W          |
| $T_j$     | Max. Operating Junction Temperature  | 175      | $^\circ C$ |
| $T_{stg}$ | Storage Temperature                  | -55~175  | $^\circ C$ |

## • THERMAL CHARACTERISTICS

| SYMBOL        | PARAMETER                             | MAX  | UNIT         |
|---------------|---------------------------------------|------|--------------|
| $R_{th(j-c)}$ | Channel-to-case thermal resistance    | 0.29 | $^\circ C/W$ |
| $R_{th(j-a)}$ | Channel-to-ambient thermal resistance | 40   | $^\circ C/W$ |



| DIM | mm    |       |
|-----|-------|-------|
|     | MIN   | MAX   |
| A   | 19.80 | 20.20 |
| B   | 15.40 | 15.80 |
| C   | 4.90  | 5.10  |
| D   | 0.90  | 1.10  |
| E   | 1.40  | 1.60  |
| F   | 1.90  | 2.10  |
| G   | 10.80 | 11.00 |
| H   | 2.40  | 2.60  |
| J   | 0.50  | 0.70  |
| K   | 19.50 | 20.50 |
| P   | 3.90  | 4.10  |
| Q   | 3.30  | 3.50  |
| U   | 5.20  | 5.40  |
| V   | 2.90  | 3.10  |

**isc N-Channel MOSFET Transistor****IRFP4568, IIRFP4568****ELECTRICAL CHARACTERISTICS** $T_c=25^{\circ}\text{C}$  unless otherwise specified

| SYMBOL       | PARAMETER                      | CONDITIONS                         | MIN | TYP | MAX       | UNIT      |
|--------------|--------------------------------|------------------------------------|-----|-----|-----------|-----------|
| $BV_{DSS}$   | Drain-Source Breakdown Voltage | $V_{GS}=0V$ ; $I_D=250\ \mu A$     | 150 |     |           | V         |
| $V_{GS(th)}$ | Gate Threshold Voltage         | $V_{DS}=V_{GS}$ ; $I_D=250\ \mu A$ | 3.0 |     | 5.0       | V         |
| $R_{DS(on)}$ | Drain-Source On-Resistance     | $V_{GS}=10V$ ; $I_D=103A$          |     |     | 5.9       | $m\Omega$ |
| $I_{GSS}$    | Gate-Source Leakage Current    | $V_{GS} = \pm 20V$                 |     |     | $\pm 0.1$ | $\mu A$   |
| $I_{DSS}$    | Drain-Source Leakage Current   | $V_{DS}=100V$ ; $V_{GS}=0V$        |     |     | 20        | $\mu A$   |
| $V_{SD}$     | Diode forward voltage          | $I_S=103A$ , $V_{GS}=0V$           |     |     | 1.3       | V         |

**NOTICE:**

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